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<222> (53)
<223> n equals a,t,g, or c
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<223> n equals a,t,g, or c
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<222> (112)
<223> n equals a,t,g, or c
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gggctgcagg aattcggcac gagcaacata gtgagccttg tctctacaaa aaattttaaa
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ggttagegag geatggtgge gegegeetgt gateteaget gettgggagg etgaagtggg
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aggatecett gageecagga gtttgagget geagtgatea tgeeattetg ggeaacagag
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tgaaaccgtc tcagaaaaga aaatgaaaat acctctacat gtggtcttcc tgctaatctc
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tetgacette etatteacea eceteceeae tgeceaetet getecateet eaceageete
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aacactcatt tgacgtacac gtgcaaatgt ttttgttgtg gaactatcct tctattcttg
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cctgtgtggg gctcatgcct gtaatcccag cactttggga agctgaggtg ggtggatcac
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<211> 1569
<212> DNA
<213> Homo sapiens
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gtcctgtctt ttctcctggc acgagcaggt tcaccaattt ttaaaatcca aatatatctc
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gttagccagc aaatctgacc cacaaggcct ggaaagaggt gattgttagg ttgcgcagag
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aaaaaaaa
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cccattagct ttaccctgac atcaggattg ccaaatccaa tggactcttg tctattctta
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420

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120

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<211> 1420

<212> DNA

<213> Homo sapiens

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 agectettee teaacetece aggacetate tggeteeage ceteteeace teeceagtet
                                                                         180
 totococogo otoagococa toogtgtoat acotgooggg gactggttga cagotttaac
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<210> 97
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<211> 401

<212> PRT

<213> Homo sapiens

<400> 97

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Pro Pro Ala Arg Ala Pro Lys Pro Ser Ala Gln Asp Val Ser Leu Gly
20 25 30

Val Asp Trp Leu Thr Arg Tyr Gly Tyr Leu Pro Pro Pro His Pro Ala 35 40 45

Gln Ala Gln Leu Gln Ser Pro Glu Lys Leu Arg Asp Ala Ile Lys Val 50 60 .

Met Gln Arg Phe Ala Gly Leu Pro Glu Thr Gly Arg Met Asp Pro Gly 65 70 75 80

Thr Val Ala Thr Met Arg Lys Pro Arg Cys Ser Leu Pro Asp Val Leu 85 90 95

Gly Val Ala Gly Leu Val Arg Arg Arg Arg Tyr Ala Leu Ser Gly
100 105 110

Ser Val Trp Lys Lys Arg Thr Leu Thr Trp Arg Val Arg Ser Phe Pro 115 120 125

Gln Ser Ser Gln Leu Ser Gln Glu Thr Val Arg Val Leu Met Ser Tyr 130 135 140

Ala Leu Met Ala Trp Gly Met Glu Ser Gly Leu Thr Phe His Glu Val 145 150 155 160

Asp Ser Pro Gln Gly Gln Glu Pro Asp Ile Leu Ile Asp Phe Ala Arg 165 170 175

Ala Phe His Gln Asp Ser Tyr Pro Phe Asp Gly Leu Gly Gly Thr Leu
180 185 190

Ala His Ala Phe Phe Pro Gly Glu His Pro Ile Ser Gly Asp Thr His 195 200 205

Phe Asp Asp Glu Glu Thr Trp Thr Phe Gly Ser Lys Asp Gly Glu Gly 210 215 220

Thr Asp Leu Phe Ala Val Ala Val His Glu Phe Gly His Ala Leu Gly 225 230 235 240

Leu Gly His Ser Ser Ala Pro Asn Ser Ile Met Arg Pro Phe Tyr Gln 245 250 255

Gly Pro Val Gly Asp Pro Asp Lys Tyr Arg Leu Ser Gln Asp Asp Arg 260 265 270

Asp Gly Leu Gln Gln Leu Tyr Gly Lys Ala Pro Gln Thr Pro Tyr Asp 275 280 285

Lys Pro Thr Arg Lys Pro Leu Ala Pro Pro Pro Gln Pro Pro Ala Ser 290 295 300

Pro Thr His Ser Pro Ser Phe Pro Ile Pro Asp Arg Cys Glu Gly Asn 305 310 315 320

Phe Asp Ala Ile Ala Asn Ile Arg Gly Glu Thr Phe Phe Phe Lys Gly 325 330 335

Pro Trp Phe Trp Arg Leu Gln Pro Ser Gly Gln Leu Val Ser Pro Arg 340 345 350

Pro Ala Arg Leu His Arg Phe Trp Glu Gly Leu Pro Ala Gln Val Arg 355 360 365

Val Val Gln Ala Ala Tyr Ala Arg His Arg Asp Gly Arg Ile Leu Leu 370 375 380

Phe Ser Gly Pro Gln Phe Trp Val Phe Gln Asp Arg Gln Leu Glu Gly 385 390 395

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<210> 98

<211> 205

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Leu Leu Phe Arg Gly His Asn Ser Gln Pro Thr Met Thr Gln Thr Ser 20 25 30

Ser Ser Gln Gly Gly Leu Gly Gly Leu Ser Leu Thr Thr Glu Pro Val 35 40 45

Ser Ser Asn Pro Gly Tyr Ile Pro Ser Ser Glu Ala Asn Arg Pro Ser 50 60

His Leu Ser Ser Thr Gly Thr Pro Gly Ala Gly Val Pro Ser Ser Gly 65 70 75 80

Arg Asp Gly Gly Thr Ser Arg Asp Thr Phe Gln Thr Val Pro Pro Asn 85 90 95

Ser Thr Thr Met Ser Leu Ser Met Arg Glu Asp Ala Thr Ile Leu Pro 100 105 110

Ser Pro Thr Ser Glu Thr Val Leu Thr Val Ala Ala Phe Gly Val Ile 115 120 125 Ser Phe Ile Val Ile Leu Val Val Val Ile Ile Leu Val Gly Val 130 135 140

Val Ser Leu Arg Phe Lys Cys Arg Lys Ser Lys Glu Ser Glu Asp Pro 145 150 155 160

Gln Lys Pro Gly Ser Ser Gly Leu Ser Glu Ser Cys Ser Thr Ala Asn 165 170 175

Gly Glu Lys Asp Ser Ile Thr Leu Ile Ser Met Lys Asn Ile Asn Met 180 185 190

Asn Asn Gly Lys Gln Ser Leu Ser Ala Glu Lys Val Leu 195 200 205

<210> 99 '

<211> 672

<212> PRT

<213> Homo sapiens

<400> 99

Met Cys Ser Arg Val Pro Leu Leu Leu Pro Leu Leu Leu Leu Leu Ala 1 5 10 15

Leu Gly Pro Gly Val Gln Gly Cys Pro Ser Gly Cys Gln Cys Ser Gln 20 25 30

Pro Gln Thr Val Phe Cys Thr Ala Arg Gln Gly Thr Thr Val Pro Arg 35 40 45

Asp Val Pro Pro Asp Thr Val Gly Leu Tyr Val Phe Glu Asn Gly Ile
50 55 60

Thr Met Leu Asp Ala Gly Ser Phe Ala Gly Leu Pro Gly Leu Gln Leu 65 70 75 80

Leu Asp Leu Ser Gln Asn Gln Ile Ala Ser Leu Pro Ser Gly Val Phe 85 90 95

Gln Pro Leu Ala Asn Leu Ser Asn Leu Asp Leu Thr Ala Asn Arg Leu 100 105 110

His Glu Ile Thr Asn Glu Thr Phe Arg Gly Leu Arg Arg Leu Glu Arg 115 120 125

Leu Tyr Leu Gly Lys Asn Arg Ile Arg His Ile Gln Pro Gly Ala Phe 130 135 140

Asp Thr Leu Asp Arg Leu Leu Glu Leu Lys Leu Gln Asp Asn Glu Leu 145 150 155 160

Arg Ala Leu Pro Pro Leu Arg Leu Pro Arg Leu Leu Leu Leu Asp Leu
165 170 175

Ser His Asn Ser Leu Leu Ala Leu Glu Pro Gly Ile Leu Asp Thr Ala 180 185 190

- Asn Val Glu Ala Leu Arg Leu Ala Gly Leu Gly Leu Gln Gln Leu Asp 195 200 205
- Glu Gly Leu Phe Ser Arg Leu Arg Asn Leu His Asp Leu Asp Val Ser 210 215 220
- Asp Asn Gln Leu Glu Arg Val Pro Pro Val Ile Arg Gly Leu Arg Gly 225 230 235 240
- Leu Thr Arg Leu Arg Leu Ala Gly Asn Thr Arg Ile Ala Gln Leu Arg 245 250 255
- Pro Glu Asp Leu Ala Gly Leu Ala Ala Leu Gln Glu Leu Asp Val Ser 260 265 270
- Asn Leu Ser Leu Gln Ala Leu Pro Gly Asp Leu Ser Gly Leu Phe Pro 275 280 285
- Arg Leu Arg Leu Leu Ala Ala Ala Arg Asn Pro Phe Asn Cys Val Cys 290 295 300
- Pro Leu Ser Trp Phe Gly Pro Trp Val Arg Glu Ser His Val Thr Leu 305 310 315 320
- Ala Ser Pro Glu Glu Thr Arg Cys His Phe Pro Pro Lys Asn Ala Gly 325 330 335
- Arg Leu Leu Glu Leu Asp Tyr Ala Asp Phe Gly Cys Pro Ala Thr 340 345 350
- Thr Thr Thr Ala Thr Val Pro Thr Thr Arg Pro Val Val Arg Glu Pro 355 360 365
- Thr Ala Leu Ser Ser Ser Leu Ala Pro Thr Trp Leu Ser Pro Thr Ala 370 375 380
- Pro Ala Thr Glu Ala Pro Ser Pro Pro Ser Thr Ala Pro Pro Thr Val 385 390 395 400
- Gly Pro Val Pro Gln Pro Gln Asp Cys Pro Pro Ser Thr Cys Leu Asn 405 410 415
- Gly Gly Thr Cys His Leu Gly Thr Arg His His Leu Ala Cys Leu Cys 420 425 430
- Pro Glu Gly Phe Thr Gly Leu Tyr Cys Glu Ser Gln Met Gly Gln Gly
 435 440 445
- Thr Arg Pro Ser Pro Thr Pro Val Thr Pro Arg Pro Pro Arg Ser Leu 450 455 460
- Thr Leu Gly Ile Glu Pro Val Ser Pro Thr Ser Leu Arg Val Gly Leu 465 470 475 480
- Gln Arg Tyr Leu Gln Gly Ser Ser Val Gln Leu Arg Ser Leu Arg Leu 485 490 495
- Thr Tyr Arg Asn Leu Ser Gly Pro Asp Lys Arg Leu Val Thr Leu Arg

500	505	510

Leu Pro Ala Ser Leu Ala Glu Tyr Thr Val Thr Gln Leu Arg Pro Asn 515 520 525

Ala Thr Tyr Ser Val Cys Val Met Pro Leu Gly Pro Gly Arg Val Pro 530 540

Glu Gly Glu Glu Ala Cys Gly Glu Ala His Thr Pro Pro Ala Val His 545 550 555

Ser Asn His Ala Pro Val Thr Gln Ala Arg Glu Gly Asn Leu Pro Leu
565 570 575

Leu Ile Ala Pro Ala Leu Ala Ala Val Leu Leu Ala Ala Leu Ala Ala 580 585 590

Val Gly Ala Ala Tyr Cys Val Arg Arg Gly Arg Ala Met Ala Ala Ala 595 600 605

Ala Gln Asp Lys Gly Gln Val Gly Pro Gly Ala Gly Pro Leu Glu Leu 610 615 620

Glu Gly Val Lys Val Pro Leu Glu Pro Gly Pro Lys Ala Thr Glu Ala 625 630 635 640

Val Glu Arg Pro Cys Pro Ala Gly Leu Ser Val Lys Cys His Ser Trp
645 650 655

Ala Ser Lys Ala Trp Pro Gln Ser Pro Leu His Ala Lys Pro Tyr Ile 660 665 670

<210> 100

<211> 386

<212> PRT

<213> Homo sapiens

<400> 100

Met Lys Phe Gln Gly Pro Leu Ala Cys Leu Leu Leu Ala Leu Cys Leu 1 5 10 15

Gly Ser Gly Glu Ala Gly Pro Leu Gln Ser Gly Glu Glu Ser Thr Gly 20 25 30

Thr Asn Ile Gly Glu Ala Leu Gly His Gly Leu Gly Asp Ala Leu Ser 35 40 45

Glu Gly Val Gly Lys Ala Ile Gly Lys Glu Ala Gly Gly Ala Ala Gly
50 60

Ser Lys Val Ser Glu Ala Leu Gly Gln Gly Thr Arg Glu Ala Val Gly 65 70 75 80

Thr Gly Val Arg Gln Val Pro Gly Phe Gly Ala Ala Asp Ala Leu Gly

II.

Asn Arg Val Gly Glu Ala Ala His Ala Leu Gly Asn Thr Gly His Glu

Ile Gly Arg Gln Ala Glu Asp Val Ile Arg His Gly Ala Asp Ala Val

Arg Gly Ser Trp Gln Gly Val Pro Gly His Asn Gly Ala Trp Glu Thr 135

Ser Gly Gly His Gly Ile Phe Gly Ser Gln Gly Gly Leu Gly Gln 155

Gly Gln Gly Asn Pro Gly Gly Leu Gly Thr Pro Trp Val His Gly Tyr 170

Pro Gly Asn Ser Ala Gly Ser Phe Gly Met Asn Pro Gln Gly Ala Pro 185

Trp Gly Gln Gly Gly Asn Gly Gly Pro Pro Asn Phe Gly Thr Asn Thr

Gln Gly Ala Val Ala Gln Pro Gly Tyr Gly Ser Val Arg Ala Ser Asn 215

Gln Asn Glu Gly Cys Thr Asn Pro Pro Pro Ser Gly Ser Gly Gly Gly 230

Ser Ser Asn Ser Gly Gly Gly Ser Gly Ser Gln Ser Gly Ser Ser Gly

Ser Gly Ser Asn Gly Asp Asn Asn Gly Ser Ser Ser Gly Gly Ser

Ser Ser Gly Ser Ser Gly Gly Ser Ser Gly Gly Ser Ser Gly Gly

Ser Ser Gly Asn Ser Gly Gly Ser Arg Gly Asp Ser Gly Ser Glu Ser

Ser Trp Gly Ser Ser Thr Gly Ser Ser Ser Gly Asn His Gly Gly Ser

Gly Gly Asn Gly His Lys Pro Gly Cys Glu Lys Pro Gly Asn Glu

Ala Arg Gly Ser Gly Glu Ser Gly Ile Gln Asn Ser Glu Thr Ser Pro

Gly Met Phe Asn Phe Asp Thr Phe Trp Lys Asn Phe Lys Ser Lys Leu

Gly Phe Ile Asn Trp Asp Ala Ile Asn Lys Asp Gln Arg Ser Ser Arg

Ile Pro

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<210> 101
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<211> 743

<212> PRT

<213> Homo sapiens

<400> 101

Met Asn Val Ser Trp Ile Ser Leu Arg Arg Arg Ser Phe Arg Ala Phe \cdot 1 10 15

Gly Arg Val Trp Thr Cys Ser Gly Leu Leu Gln Met Thr Ser Ile Lys 20 25 30

Gly Lys Leu Ser Leu Val Trp Gln Arg Leu Asp Gly His Phe Cys Arg 35 40 45

Thr Leu Glu Glu Ser Val Tyr Ser Ile Ala Ile Ser Leu Ala Gln Arg
50 55 60

Tyr Ser Val Ser Arg Trp Glu Val Phe Met Thr His Leu Glu Phe Leu 65 70 75 80

Phe Thr Asp Ser Gly Leu Ser Thr Leu Glu Ile Glu Asn Arg Ala Gln
85 90 95

Asp Leu His Leu Phe Glu Thr Leu Lys Thr Asp Pro Glu Ala Phe His
100 105 110

Gln His Met Val Lys Tyr Ile Tyr Pro Thr Ile Gly Gly Phe Asp His 115 120 125

Glu Arg Leu Gln Tyr Tyr Phe Thr Leu Leu Glu Asn Cys Gly Cys Ala . 130 $\,$ 135 $\,$ 140

Asp Leu Gly Asn Cys Ala Ile Lys Pro Glu Thr His Ile Arg Leu Leu 145 150 155 160

Lys Lys Phe Lys Val Val Ala Ser Gly Leu Asn Tyr Lys Lys Leu Thr 165 170 175

Asp Glu Asn Met Ser Pro Leu Glu Ala Leu Glu Pro Val Leu Ser Ser 180 185 190

Gln Asn Ile Leu Ser Ile Ser Lys Leu Val Pro Lys Ile Pro Glu Lys 195 200 205

Asp Gly Gln Met Leu Ser Pro Ser Ser Leu Tyr Thr Ile Trp Leu Gln 210 220

Lys Leu Phe Trp Thr Gly Asp Pro His Leu Ile Lys Gln Val Pro Gly 225 230 235 240

Ser Ser Pro Glu Trp Leu His Ala Tyr Asp Val Cys Met Lys Tyr Phe 245 250 255

Asp Arg Leu His Pro Gly Asp Leu Ile Thr Val Val Asp Ala Val Thr 260 270

- Phe Ser Pro Lys Ala Val Thr Lys Leu Ser Val Glu Ala Arg Lys Glu 275 280 285
- Met Thr Arg Lys Ala Ile Lys Thr Val Lys His Phe Ile Glu Lys Pro 290 295 300
- Arg Lys Arg Asn Ser Glu Asp Glu Ala Gln Glu Ala Lys Asp Ser Lys 305 310 315 320
- Val Thr Tyr Ala Asp Thr Leu Asn His Leu Glu Lys Ser Leu Ala His
 325 330 335
- Leu Glu Thr Leu Ser His Ser Phe Ile Leu Ser Leu Lys Asn Ser Glu 340 345 350
- Gln Glu Thr Leu Gln Lys Tyr Ser His Leu Tyr Asp Leu Ser Arg Ser 355 360 365
- Glu Lys Glu Lys Leu His Asp Glu Ala Val Ala Ile Cys Leu Asp Gly 370 375 380
- Gln Pro Leu Ala Met Ile Gln Gln Leu Leu Glu Val Ala Val Gly Pro 385 390 395 400
- Leu Asp Ile Ser Pro Lys Asp Ile Val Gln Ser Ala Ile Met Lys Ile 405 410 415
- Ile Ser Ala Leu Ser Gly Gly Ser Ala Asp Leu Gly Gly Pro Arg Asp 420 425 430
- Pro Leu Lys Val Leu Glu Gly Val Val Ala Ala Val His Ala Ser Val
 435 440 445
- Asp Lys Gly Glu Glu Leu Val Ser Pro Glu Asp Leu Leu Glu Trp Leu 450 455 460
- Arg Pro Phe Cys Ala Asp Asp Ala Trp Pro Val Arg Pro Arg Ile His 465 470 475 480
- Val Leu Gln Ile Leu Gly Gln Ser Phe His Leu Thr Glu Glu Asp Ser 485 490 495
- Lys Leu Leu Val Phe Phe Arg Thr Glu Ala Ile Leu Lys Ala Ser Trp 500 505 510
- Pro Gln Arg Gln Val Asp Ile Ala Asp Ile Glu Asn Glu Glu Asn Arg 515 520 525
- Tyr Cys Leu Phe Met Glu Leu Leu Glu Ser Ser His His Glu Ala Glu 530 540
- Phe Gln His Leu Val Leu Leu Gln Ala Trp Pro Pro Met Lys Ser 545 550 560
- Glu Tyr Val Ile Thr Asn Asn Pro Trp Val Arg Leu Ala Thr Val Met 565 570 575

Leu Thr Arg Cys Thr Met Glu Asn Lys Glu Gly Leu Gly Asn Glu Val 580 585 590

Leu Lys Met Cys Arg Ser Leu Tyr Asn Thr Lys Gln Met Leu Pro Ala 595 600 605

Glu Gly Val Lys Glu Leu Cys Leu Leu Leu Leu Asn Gln Ser Leu Leu 610 615 620

Leu Pro Ser Leu Lys Leu Leu Glu Ser Arg Asp Glu His Leu His 625 630 635 640

Glu Met Ala Leu Glu Gln Ile Thr Ala Val Thr Thr Val Asn Asp Ser 645 650 655

Asn Cys Asp Gln Glu Leu Leu Ser Leu Leu Leu Asp Ala Lys Leu Leu 660 665 670

Val Lys Cys Val Ser Thr Pro Phe Tyr Pro Arg Ile Val Asp His Leu 675 680 685

Leu Ala Ser Leu Gln Gln Gly Arg Trp Asp Ala Glu Glu Leu Gly Arg 690 695 700

His Leu Arg Glu Ala Gly His Glu Ala Glu Ala Gly Ser Leu Leu Leu 705 710 715 720

Ala Val Arg Gly Thr His Gln Ala Phe Arg Thr Phe Ser Thr Ala Leu 725 730 735

Arg Ala Ala Gln His Trp Val 740

<210> 102

<211> 235

<212> PRT

<213> Homo sapiens

<400> 102

Met Leu Asn Leu Gly Ser Trp Pro Gly Leu Val Ala Ala Ser Leu Phe 1 5 10 15

Leu Leu Lys Gly Val Phe Ser Leu Phe Val Gln Leu Leu Lys Asn Pro 20 25 30

Leu Gln His Pro Arg Asn Arg Ala Thr His Leu Leu Ala Thr Pro Gly
35 40 45

Ala Arg Val Leu Gln Glu His Leu Ser Ile His Pro Val Cys His Gln 50 60

Ser Gln Pro Pro Glu Ala Leu Ser Ser Thr Gln His Thr Gly Gln Pro 65 70 75 80

Pro Gly Gln Pro Ser Ala Pro Ser Gln Leu Ser Ala Pro Arg Arg Tyr
85 90 95

Ser Ser Ser Leu Ser Pro Ile Gln Ala Pro Asn His Pro Pro Pro Gln
100 105 110

Pro Pro Thr Gln Ala Thr Pro Leu Met His Thr Lys Pro Asn Ser Gln 115 120 125

Gly Pro Pro Asn Pro Met Ala Leu Pro Ser Glu His Gly Leu Glu Gln
130 135 140

Pro Ser His Thr Pro Pro Gln Thr Pro Thr Pro Pro Ser Thr Pro Pro 145 150 155 160

Leu Gly Lys Gln Asn Pro Ser Leu Pro Ala Pro Gln Thr Leu Ala Gly
165 170 175

Gly Asn Pro Glu Thr Ala Gln Pro His Ala Gly Thr Leu Pro Arg Pro 180 185 190

Arg Pro Val Pro Lys Pro Arg Asn Arg Pro Ser Val Pro Pro Pro Pro 195 200 205

Gln Pro Pro Gly Val His Ser Ala Gly Asp Ser Ser Leu Thr Asn Thr 210 215 220

Ala Pro Thr Ala Ser Lys Ile Val Thr Asp Val 225 230 235

<210> 103

<211> 402

<212> PRT

<213> Homo sapiens

<400> 103

Met Tyr Ser Gly Asn Arg Ser Gly Gly His Gly Tyr Trp Asp Gly Gly
1 5 10 15

Gly Ala Ala Gly Ala Glu Gly Pro Ala Pro Ala Gly Thr Leu Ser Pro 20 25 30

Ala Pro Leu Phe Ser Pro Gly Thr Tyr Glu Arg Leu Ala Leu Leu Leu 35 40 45

Gly Ser Ile Gly Leu Leu Gly Val Gly Asn Asn Leu Leu Val Leu Val 50 55 60

Leu Tyr Tyr Lys Phe Gln Arg Leu Arg Thr Pro Thr His Leu Leu Leu 65 70 75 80

Val Asn Ile Ser Leu Ser Asp Leu Leu Val Ser Leu Phe Gly Val Thr
85 90 95

Phe Thr Phe Val Ser Cys Leu Arg Asn Gly Trp Val Trp Asp Thr Val

Gly Cys Val Trp Asp Gly Phe Ser Gly Ser Leu Phe Gly Ile Val Ser 115 120 125

September 1957

أ إن ويخفي

100 and 100 an

(C)

Ile Ala Thr Leu Thr Val Leu Ala Tyr Glu Arg Tyr Ile Arg Val Val 130 135 140

His Ala Arg Val Ile Asn Phe Ser Trp Ala Trp Arg Ala Ile Thr Tyr 145 150 155 160

Ile Trp Leu Tyr Ser Leu Ala Trp Ala Gly Ala Pro Leu Leu Gly Trp
165 170 175

Asn Arg Tyr Ile Leu Asp Val His Gly Leu Gly Cys Thr Val Asp Trp 180 185 190

Lys Ser Lys Asp Ala Asn Asp Ser Ser Phe Val Leu Phe Leu Phe Leu 195 200 205

Gly Cys Leu Val Val Pro Leu Gly Val Ile Ala His Cys Tyr Gly His 210 215 220

Ile Leu Tyr Ser Ile Arg Met Leu Arg Cys Val Glu Asp Leu Gln Thr 225 230 235 240

Ile Gln Val Ile Lys Ile Leu Lys Tyr Glu Lys Lys Leu Ala Lys Met 245 250 255

Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr Ile 260 265 270

Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr Pro 275 280 285

Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val Tyr 290 295 300

Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser Leu 305 310 315 320

Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala Lys 325 330 335

Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Lys Val Thr Phe Asn Ser 355 360 365

Ser Ser Ile Ile Phe Ile Ile Thr Ser Asp Glu Ser Leu Ser Val Asp 370 375 380

Asp Ser Asp Lys Thr Asn Gly Ser Lys Val Asp Val Ile Gln Val Arg 385 390 395 400

Pro Leu

<210> 104

<211> 101

<212> PRT

<213> Homo sapiens

<400> 104

Met Lys Gln Arg Leu Arg Gly Gln Gln Gly Phe Gln Leu Asp Val Cys

1 10 15

Val Ala Cys Thr Leu Leu Phe Leu Leu Leu Thr Val Asn Ser Gly Val
20 25 30

Thr Ser Arg Glu Gln Leu Gly Cys Ser Arg Pro Ser Pro Ala Gln Gly
35 40 45

Glu Gly Arg Gly Thr Cys Ser Ser Glu Gln Pro Glu Gly Gly Gly Arg
50 60

Ser Glu Val Val Glu Trp Phe Val Tyr Leu Thr Gly Leu Lys Gly Pro 65 70 75 80

Ser Val Phe Val Val Cys Phe Val Ser Cys Phe Ser Asp Arg Ser Ile 85 90 95

Thr Thr Asp Leu Leu 100

<210> 105

<211> 185

<212> PRT

<213> Homo sapiens

<400> 105

Met Lys Phe Thr Ile Val Phe Ala Gly Leu Leu Gly Val Phe Leu Ala 1 5 10 15

Pro Ala Leu Ala Asn Tyr Asn Ile Asn Val Asn Asp Asp Asn Asn Asn 20 25 30

Ala Gly Ser Gly Gln Gln Ser Val Ser Val Asn Asn Glu His Asn Val
35 40 45

Ala Asn Val Asp Asn Asn Asn Gly Trp Asp Ser Trp Asn Ser Ile Trp 50 55 60

Asp Tyr Gly Asn Gly Phe Ala Ala Thr Arg Leu Phe Gln Lys Lys Thr 65 70 75 80

Cys Ile Val His Lys Met Asn Lys Glu Val Met Pro Ser Ile Gln Ser

Leu Asp Ala Leu Val Lys Glu Lys Lys Leu Gln Gly Lys Gly Pro Gly
100 105 110

Gly Pro Pro Pro Lys Gly Leu Met Tyr Ser Val Asn Pro Asn Lys Val

Asp Asp Leu Ser Lys Phe Gly Lys Asn Ile Ala Asn Met Cys Arg Gly 130 135 140 Ile Pro Thr Tyr Met Ala Glu Glu Met Gln Glu Ala Ser Leu Phe Phe 145 150 155 160

Tyr Ser Gly Thr Cys Tyr Thr Thr Ser Val Leu Trp Ile Val Asp Ile 165 170 175

Ser Phe Cys Gly Asp Thr Val Glu Asn 180 185

<210> 106

<211> 231

<212> PRT

<213> Homo sapiens

<400> 106

Met Ser Arg Ala Met Ala Leu Phe Phe Val Leu Cys Trp Ile Gln Gly
1 5 10 15

Tyr Ser Gln Gln Lys Ser Leu Asn Asn Ala Ala Phe Ala Ser Gly Ser 20 25 30

Asn Glu Arg Glu Glu His Leu Ala Lys Ile Phe Asp Glu Ile Leu Leu
35 40 45

Gln Val Phe Pro Lys Phe Pro Tyr Asp Pro Ser Phe Asn Glu Ala Thr 50 55 60

Ala Val Arg Ser Ile Thr Lys Thr Asp Met Arg Lys Gly Thr Ser Ile 65 70 75 80

Ala Trp Asn Ser Pro Lys Pro Glu Tyr Phe Leu Gly Ser Val Asp Lys
85 90 95

Ile Pro Asp Lys Asp His Leu Ser Glu Glu Lys Asn Phe Lys Glu Ser 100 105 110

Cys Leu Phe Asp Arg Asp Leu Arg Glu Gln Leu Thr Thr Ile Asp Lys 115 120 125

Glu Thr Leu Gln Gly Ala Ala Lys Pro Asp Ala His Phe Arg Thr Met 130 135 140

Pro Cys Gly Gln Leu Leu His Phe Leu Gln Arg Asn Thr Ile Ile Ala 145 150 155 160

Thr Val Ser Gly Val Ala Ile Leu Met Ala Ile Val Leu Leu Leu Leu 165 170 175

Gly Leu Ala Ser Tyr Ile Arg Lys Lys Gln Pro Ser Ser Pro Leu Ala 180 185 190

Asn Thr Thr Tyr Asn Ile Phe Ile Met Asp Gly Lys Thr Trp Trp His 195 200 205

Asn Ser Glu Glu Lys Asn Phe Thr Lys Leu Ala Lys Lys Gln Lys Gln 210 215 220

Leu Lys Ser Ser Ser Cys Val 225 230

<210> 107

<211> 136

<212> PRT

<213> Homo sapiens

<400> 107

Met Ala Ser Leu Gly Leu Leu Leu Leu Leu Leu Leu Thr Ala Leu Pro 1 5 10 15

Pro Leu Trp Ser Ser Leu Pro Gly Leu Asp Thr Ala Glu Ser Lys
20 25 30

Ala Thr Ile Ala Asp Leu Ile Leu Ser Ala Leu Glu Arg Ala Thr Val
35 40 45

Phe Leu Glu Gln Arg Leu Pro Glu Ile Asn Leu Asp Gly Met Val Gly 50 60

Val Arg Val Leu Glu Glu Gln Leu Lys Ser Val Arg Glu Lys Trp Ala 65 70 75 80

Gln Glu Pro Leu Gln Pro Leu Ser Leu Arg Val Gly Met Leu Gly
85 90 95

Glu Lys Leu Glu Ala Ala Ile Gln Arg Ser Leu His Tyr Leu Lys Leu 100 105 110

Ser Asp Pro Lys Tyr Leu Arg Gly Arg Thr Ala Ala Ser Pro Ala Ala 115 120 125

Ser Gln Thr Ser Ala Gly Ala Ser 130 135

<210> 108

<211> 606

<212> PRT

<213> Homo sapiens

<400> 108

Met Thr Val Val Gly Asn Pro Arg Ser Trp Ser Cys Gln Trp Leu Pro 1 5 10

Ile Leu Ile Leu Leu Gly Thr Gly His Gly Pro Gly Val Glu Gly
20 25 30

Val Thr His Tyr Lys Ala Gly Asp Pro Val Ile Leu Tyr Val Asn Lys
35 40 45

Val Gly Pro Tyr His Asn Pro Gln Glu Thr Tyr His Tyr Tyr Gln Leu 50 60

Pro Val Cys Cys Pro Glu Lys Ile Arg His Lys Ser Leu Ser Leu Gly 65 70 75 80

- Glu Val Leu Asp Gly Asp Arg Met Ala Glu Ser Leu Tyr Glu Ile Arg 85 90 95
- Phe Arg Glu Asn Val Glu Lys Arg Ile Leu Cys His Met Gln Leu Ser 100 105 110
- Ser Ala Gln Val Glu Gln Leu Arg Gln Ala Ile Glu Glu Leu Tyr Tyr 115 120 125
- Phe Glu Phe Val Val Asp Asp Leu Pro Ile Arg Gly Phe Val Gly Tyr 130 140
- Met Glu Glu Ser Gly Phe Leu Pro His Ser His Lys Ile Gly Leu Trp 145 150 155
- Thr His Leu Asp Phe His Leu Glu Phe His Gly Asp Arg Ile Ile Phe 165 170 175
- Ala Asn Val Ser Val Arg Asp Val Lys Pro His Ser Leu Asp Gly Leu 180 185 190
- Arg Pro Asp Glu Phe Leu Gly Leu Thr His Thr Tyr Ser Val Arg Trp
 195 200 205
- Ser Glu Thr Ser Val Glu Arg Arg Ser Asp Arg Arg Gly Asp Asp 210 215 220
- Gly Gly Phe Phe Pro Arg Thr Leu Glu Ile His Trp Leu Ser Ile Ile 225 230 235 240
- Asn Ser Met Val Leu Val Phe Leu Leu Val Gly Phe Val Ala Val Ile 245 250 255
- Leu Met Arg Val Leu Arg Asn Asp Leu Ala Arg Tyr Asn Leu Asp Glu 260 265 270
- Glu Thr Thr Ser Ala Gly Ser Gly Asp Asp Phe Asp Gln Gly Asp Asn 275 280 285
- Gly Trp Lys Ile Ile His Thr Asp Val Phe Arg Phe Pro Pro Tyr Arg 290 295 300
- Gly Leu Leu Cys Ala Val Leu Gly Val Gly Ala Gln Phe Leu Ala Leu 305 310 315 320
- Gly Thr Gly Ile Ile Val Met Ala Leu Leu Gly Met Phe Asn Val His 325 330 335
- Arg His Gly Ala Ile Asn Ser Ala Ala Ile Leu Leu Tyr Ala Leu Thr 340 345 350
- Cys Cys Ile Ser Gly Tyr Val Ser Ser His Phe Tyr Arg Gln Ile Gly 355 360 365
- Gly Glu Arg Trp Val Trp Asn Ile Ile Leu Thr Thr Ser Leu Phe Ser 370 380

AND MANAGEMENT

雅 雅

100

Val Pro Phe Phe Leu Thr Trp Ser Val Val Asn Ser Val His Trp Ala 385 390 395 400

Asn Gly Ser Thr Gln Ala Leu Pro Ala Thr Thr Ile Leu Leu Leu 405 410 415

Thr Val Trp Leu Leu Val Gly Phe Pro Leu Thr Val Ile Gly Gly Ile 420 425 430

Phe Gly Lys Asn Asn Ala Ser Pro Phe Asp Ala Pro Cys Arg Thr Lys 435 440 445

Asn Ile Ala Arg Glu Ile Pro Pro Gln Pro Trp Tyr Lys Ser Thr Val 450 455 460

Ile His Met Thr Val Gly Gly Phe Leu Pro Phe Ser Ala Ile Ser Val 465 470 475 480

Glu Leu Tyr Tyr Ile Phe Ala Thr Val Trp Gly Arg Glu Gln Tyr Thr 485 490 495

Leu Tyr Gly Ile Leu Phe Phe Val Phe Ala Ile Leu Leu Ser Val Gly 500 505 510

Ala Cys Ile Ser Ile Ala Leu Thr Tyr Phe Gln Leu Ser Gly Glu Asp 515 520 525

Tyr Arg Trp Trp Arg Ser Val Leu Ser Val Gly Ser Thr Gly Leu 530 540

Phe Ile Phe Leu Tyr Ser Val Phe Tyr Tyr Ala Arg Arg Ser Asn Met 545 550 555 560

Ser Gly Ala Val Gln Thr Val Glu Phe Phe Gly Tyr Ser Leu Leu Thr 565 . 570 575

Gly Tyr Val Phe Phe Leu Met Leu Gly Thr Ile Ser Phe Phe Ser Ser 580 585 590

Leu Lys Phe Ile Arg Tyr Ile Tyr Val Asn Leu Lys Met Asp 595 600 605

<210> 109

<211> 310

<212> PRT

<213> Homo sapiens

<400> 109

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro 1 5 10

Asp Phe Phe Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val 20 25 30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
50 55 60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe 65 70 75 80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly
85 90 95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu 100 105 110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu 115 120 125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys 130 135 140

Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys 145 150 155

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn 165 170 175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn 180 185 190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala 195 200 205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp 210 215 220

Ala Gly Ser Ala Arg Cys Glu Glu Glu Glu Met Glu Val Tyr Asp Leu 225 230 235 240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu 245 250 255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe 260 265 270

Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro 275 280 285

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His 290 295 300

Lys Ser Ser Phe Val Ile 305 310

<210> 110

<211> 247

<212> PRT

<213> Homo sapiens

<400> 110

Met Glu Lys Cys Leu Gln Asp Phe Cys Leu Pro Phe Leu Arg Ile Thr 1 5 10 15

Ser Leu Leu Gln His His Leu Phe Gly Glu Asp Leu Pro Ser Cys Gln 20 25 30

Glu Glu Glu Glu Phe Ser Val Leu Ala Ser Cys Leu Gly Leu Leu Pro 35 40 45

Thr Phe Tyr Gln Thr Glu His Pro Phe Ile Ser Ala Ser Cys Leu Asp
50 55 60

Trp Pro Val Pro Ala Phe Asp Ile Ile Thr Gln Trp Cys Phe Glu Ile
65 70 75 80

Lys Ser Phe Thr Glu Arg His Ala Glu Gln Gly Lys Ala Leu Leu Ile 85 90 95

Gln Glu Ser Lys Trp Lys Leu Pro His Leu Leu Gln Leu Pro Glu Asn 100 105 110

Tyr Asn Thr Ile Phe Gln Tyr Tyr His Arg Lys Thr Cys Ser Val Cys 115 120 125

Thr Lys Val Pro Lys Asp Pro Ala Val Cys Leu Val Cys Gly Thr Phe 130 135 140

Val Cys Leu Lys Gly Leu Cys Cys Lys Gln Gln Ser Tyr Cys Glu Cys 145 150 155 160

Val Leu His Ser Gln Asn Cys Gly Ala Gly Thr Gly Ile Phe Leu Leu 165 170 175

Ile Asn Ala Ser Val Ile Ile Ile Ile Arg Gly His Arg Phe Cys Leu 180 185 190

Trp Gly Ser Val Tyr Leu Asp Ala His Gly Glu Glu Asp Arg Asp Leu 195 200 205

Arg Arg Gly Lys Pro Leu Tyr Ile Cys Lys Glu Arg Tyr Lys Val Leu 210 215 220

Glu Gln Gln Trp Ile Ser His Thr Phe Asp His Ile Asn Lys Arg Trp 225 230 235 240

Gly Pro His Tyr Asn Gly Leu 245

<210> 111

<211> 559

<212> PRT

<213> Homo sapiens

<400> 111

Met Val Leu Leu His Trp Cys Leu Leu Trp Leu Leu Phe Pro Leu Ser

1 5 10 15

- Ser Arg Thr Gln Lys Leu Pro Thr Arg Asp Glu Glu Leu Phe Gln Met 20 25 30
- Gln Ile Arg Asp Lys Ala Phe Phe His Asp Ser Ser Val Ile Pro Asp 35 40 45
- Gly Ala Glu Ile Ser Ser Tyr Leu Phe Arg Asp Thr Pro Lys Arg Tyr
 50 55 60
- Phe Phe Val Val Glu Glu Asp Asn Thr Pro Leu Ser Val Thr Val Thr 65 70 75 80
- Pro Cys Asp Ala Pro Leu Glu Trp Lys Leu Ser Leu Gln Glu Leu Pro 85 90 95
- Glu Asp Arg Ser Gly Glu Gly Ser Gly Asp Leu Glu Pro Leu Glu Gln 100 105 110
- Gln Lys Gln Gln Ile Ile Asn Glu Glu Gly Thr Glu Leu Phe Ser Tyr 115 120 125
- Lys Gly Asn Asp Val Glu Tyr Phe Ile Ser Ser Ser Pro Ser Gly 130 135 140
- Leu Tyr Gln Leu Asp Leu Leu Ser Thr Glu Lys Asp Thr His Phe Lys 145 150 155 160
- Val Tyr Ala Thr Thr Pro Glu Ser Asp Gln Pro Tyr Pro Glu Leu 165 170 175
- Pro Tyr Asp Pro Arg Val Asp Val Thr Ser Leu Gly Arg Thr Thr Val
- Thr Leu Ala Trp Lys Pro Ser Pro Thr Ala Ser Leu Leu Lys Gln Pro 195 200 205
- Ile Gln Tyr Cys Val Val Ile Asn Lys Glu His Asn Phe Lys Ser Leu 210 215 220
- Cys Ala Val Glu Ala Lys Leu Ser Ala Asp Asp Ala Phe Met Met Ala 225 230 235 240
- Pro Lys Pro Gly Leu Asp Phe Ser Pro Phe Asp Phe Ala His Phe Gly 245 250 255
- Phe Pro Ser Asp Asn Ser Gly Lys Glu Arg Ser Phe Gln Ala Lys Pro
- Ser Pro Lys Leu Gly Arg His Val Tyr Ser Arg Pro Lys Val Asp Ile 275 280 285
- Gln Lys Ile Cys Ile Gly Asn Lys Asn Ile Phe Thr Val Ser Asp Leu 290 295 300
- Lys Pro Asp Thr Gln Tyr Tyr Phe Asp Val Phe Val Val Asn Ile Asn 305 310 315 320
- Ser Asn Met Ser Thr Ala Tyr Val Gly Thr Phe Ala Arg Thr Lys Glu

325	330	335

Glu Ala Lys Gln Lys Thr Val Glu Leu Lys Asp Gly Lys Ile Thr Asp 340 345 350

Val Phe Val Lys Arg Lys Gly Ala Lys Phe Leu Arg Phe Ala Pro Val

Ser Ser His Gln Lys Val Thr Phe Phe Ile His Ser Cys Leu Asp Ala 370 375 380

Val Gln Ile Gln Val Arg Arg Asp Gly Lys Leu Leu Leu Ser Gln Asn 385 390 395 400

Val Glu Gly Ile Gln Gln Phe Gln Leu Arg Gly Lys Pro Lys Ala Lys 405 410 415

Tyr Leu Val Arg Leu Lys Gly Asn Lys Lys Gly Ala Ser Met Leu Lys 420 425 430

Ile Leu Ala Thr Thr Arg Pro Thr Lys Gln Ser Phe Pro Ser Leu Pro
435 440 445

Glu Asp Thr Arg Ile Lys Ala Phe Asp Lys Leu Arg Thr Cys Ser Ser 450 455 460

Ala Thr Val Ala Trp Leu Gly Thr Gln Glu Arg Asn Lys Phe Cys Ile 465 470 475 480

Tyr Lys Lys Glu Val Asp Asp Asp Tyr Asp Glu Asp Gln Lys Lys Arg 485 490 495

Glu Gln Asn Gln Cys Leu Gly Pro Asp Ile Arg Lys Lys Ser Glu Lys 500 505 510

Val Leu Cys Lys Tyr Phe His Ser Gln Asn Leu Gln Lys Ala Val Thr 515 520 525

Thr Glu Thr Ile Lys Gly Leu Gln Pro Gly Lys Ser Leu Pro Ala Gly 530 540

Cys Leu Cys His Arg Thr Trp Gly Ala Leu Cys Lys Val Ser Glu 545 550 555

<210> 112

<211> 71

<212> PRT

<213> Homo sapiens

<400> 112

Met Ser Pro Ser His Ser Pro Val Ser Cys Phe Lys Leu Arg Val Leu
1 5 10 15

Val Phe Pro Leu Pro Leu Phe Leu Gly Thr Ala Leu Cys Ser Val Trp
20 25 30

Asp Pro Arg Ala Arg Pro Leu Gly Leu Val Ala Ala Arg Pro Leu

Thr Leu Lys Leu Arg Ala Arg 65 70

<210> 113

<211> 158

<212> PRT

<213> Homo sapiens

<400> 113

Met Ala Leu Glu Val Leu Met Leu Leu Ala Val Leu Ile Trp Thr Gly
1 5 10 15

Ala Glu Asn Leu His Val Lys Ile Ser Cys Ser Leu Asp Trp Leu Met 20 25 30

Val Ser Val Ile Pro Val Ala Glu Ser Arg Asn Leu Tyr Ile Phe Ala 35 40 45

Asp Glu Leu His Leu Gly Met Gly Cys Pro Ala Asn Arg Ile His Thr
50 55 60

Tyr Val Tyr Glu Phe Ile Tyr Leu Val Arg Asp Cys Gly Ile Arg Thr
65 70 75 80

Arg Val Val Ser Glu Glu Thr Leu Leu Phe Gln Thr Glu Leu Tyr Phe 85 90 95

Thr Pro Arg Asn Ile Asp His Asp Pro Gln Glu Ile His Leu Glu Cys
100 105 110

Ser Thr Ser Arg Lys Ser Val Trp Leu Thr Pro Val Ser Thr Glu Asn 115 120 125

Glu Ile Lys Leu Asp Pro Ser Pro Phe Ile Ala Asp Phe Gln Thr Thr 130 135 140

Ala Glu Glu Leu Gly Leu Leu Ser Ser Ser Pro Asn Leu Leu 145 150 155

<210> 114

<211> 170

<212> PRT

<213> Homo sapiens

<400> 114

Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg 1 5 10 15

Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp 20 25 30

 Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys
35 40 45

Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile 50 55 60

Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr 65 70 75 80

Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln 85 90 95

Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly
100 105 110

Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln
115 120 125

Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu 130 135 140

Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His 145 150 155 160

Ala Val His Pro Thr Gly Thr Lys Ala Leu 165 170

<210> 115

<211> 354

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 115

Met Ala Gly Pro Arg Leu Leu Phe Leu Xaa Ala Leu Ala Leu Glu Leu 1 5 10 $\overline{}$ 15

Leu Gly Arg Ala Gly Gly Ser Gln Pro Ala Leu Arg Ser Arg Gly Thr 20 25 30

Ala Thr Ala Cys Arg Leu Asp Asn Lys Glu Ser Glu Ser Trp Gly Ala
35 40 45

Leu Leu Ser Gly Glu Arg Leu Asp Thr Trp Ile Cys Ser Leu Leu Gly 50 60

Ser Leu Met Val Gly Leu Ser Gly Val Phe Pro Leu Leu Val Ile Pro 65 70 75 80

Leu Glu Met Gly Thr Met Leu Arg Ser Glu Ala Gly Ala Trp Arg Leu 85 90 95

Lys Gln Leu Leu Ser Phe Ala Leu Gly Gly Leu Leu Gly Asn Val Phe

			100					105					110		
Leu	His	Leu 115	Leu	Pro	Glu	Ala	Trp 120	Ala	Tyr	Thr	Cys	Ser 125	Ala	Ser	Pro
Gly	Gly 130	Glu	Gly	Gln	Ser	Leu 135	Gln	Gln	Gln	Gln	Gln 140	Leu	Gly	Leu	Trp
Val 145	Ile	Ala	Gly	Ile	Leu 150	Thr	Phe	Leu	Ala	Leu 155	Glu	Lys	Met	Phe	Leu 160
Asp	Ser	Lys	Glu	Glu 165	Gly	Thr	Ser	Gln	Ala 170	Pro	Asn	Lys	Asp	Pro 175	Thr
Ala	Ala	Ala	Ala 180	Ala	Leu	Asn	Gly	Gly 185	His	Cys	Leu	Ala	Gln 190	Pro	Ala
Ala	Glu	Pro 195	Gly	Leu	Gly	Ala	Val 200	Val	Arg	Ser	Ile	Lys 205	Val	Ser	Gly
Tyr	Leu 210	Asn	Leu	Leu	Ala	Asn 215	Thr	Ile	Asp	Asn	Phe 220	Thr	His	Gly	Leu
Ala 225	Val	Ala	Ala	Ser	Phe 230	Leu	Val	Ser	Lys	Lys 235	Ile	Gly	Leu	Leu	Thr 240
Thr	Met	Ala	Ile	Leu 245	Leu	His	Glu	Ile	Pro 250	His	Glu	Val	Gly	Asp 255	Phe
Ala	Ile	Leu	Leu 260	Arg	Ala	Gly	Phe	Asp 265	Arg	Trp	Ser	Ala	Ala 270	Lys	Leu
Gln	Leu	Ser 275	Thr	Ala	Leu	Gly	Gly 280	Leu	Leu	Gly	Ala	Gly 285	Phe	Ala	Ile
Cys	Thr 290	Gln	Ser	Pro	Lys	Gly 295	Val	Glu	Glu	Thr	Ala 300	Ala	Trp	Val	Leu
Pro 305	Phe	Thr	Ser	Gly	Gly 310	Phe	Leu	Tyr	Ile	Ala 315	Leu	Val	Asn	Val	Leu 320
Pro	Asp	Leu	Leu	Glu 325	Glu	Glu	Asp	Pro	Trp 330	Arg	Ser	Leu	Gln	Gln 335	Leu
Leu	Leu	Leu	Cys 340	Ala	Gly	Ile	Val	Val 345	Met	Val	Leu	Phe	Ser 350	Leu	Phe

Val Asp

<210> 116

<211> 145

<212> PRT

<213> Homo sapiens

<400> 116

Met Ser Gln Ala Trp Val Pro Gly Leu Ala Pro Thr Leu Leu Phe Ser

<400> 118

1				5	,				10					15	
Leu	Leu	Ala	Gly 20	Pro	Gln	Lys	Ile	Ala 25	Ala	Lys	Cys	Gly	Leu 30	Ile	Leu
Ala	Cys	Pro 35	Lys	Gly	Phe	Lys	Cys 40	Cys	Gly	Asp	Ser	Cys 45	Cys	Gln	Glu
Asn	Glu 50	Leu	Phe	Pro	Gly	Pro 55	Val	Arg	Ile	Phe	Val 60	Ile	Ile	Phe	Leu
Val 65	Ile	Leu	Ser	Val	Phe 70	Cys	Ile	Cys	Gly	Leu 75	Ala	Lys	Cys	Phe	Cys 80
Arg	Asn	Cys	Arg	Glu 85	Pro	Glu	Pro	Asp	Ser 90	Pro	Val	Asp	Cys	Arg 95	Gly
Pro	Leu	Glu	Leu 100	Pro	Ser	Ile	Ile	Pro 105	Pro	Glu	Arg	Val	Ile 110	Leu	Lys
Pro	Ser	Leu 115	Gly	Pro	Thr	Pro	Thr 120	Glu	Pro	Pro	Pro	Pro 125	Tyr	Ser	Phe
Arg	Pro 130	Glu	Glu	Tyr	Thr	Gly 135	Asp	Gln	Arg	Gly	Ile 140	Asp	Asn	Pro	Ala
Phe 145															
<210> 117 <211> 79 <212> PRT <213> Homo sapiens															
	0> 13		T.e.11	Thr	Gìn	Thr	Dhe	Dhe	Phe	Tle	Ser	Gln	Thr	Len	Len
1		**** 9	Leu	5	0111				10		501	0.2.12	****	15	200
Asp	Trp	Phe	Leu 20	Ala	Ala	Ala	Leu	Ala 25	Leu	Pro	Asn	Leu	Cys 30	Ser	Pro
Leu	Ala	Ser 35	Asn	Phe	Lys	Ser	Arg 40	Gln	Ile	Ser	Ser	Val 45	Pro	Ile	Gln
Pro	Ser 50	Gln	Gly	Thr	Ser	Arg 55	Val	Ala	Leu	Gln	Ile 60	Trp	Cys	Gly	Ser
Cys 65	Arg	Met	Arg	Met	Ser 70	Ser	Ser	Thr	Ile	His 75	Ile	Leu	Ala	Leu	
<210> 118 <211> 82 <212> PRT <213> Homo sapiens															

Met Leu Leu Gln Ser Leu Phe Phe Pro Met Ser Trp Gly Ser Gly
1 5 10 15

Gly Gly Lys Gly Arg Asp Asp Leu Pro Arg Glu Lys Pro Thr Thr 20 25 30

Cys Pro Val Phe Asp Arg Leu Phe Asp Ile Phe Ala Lys Ile Pro Leu 35 40 45

Val Glu Ser Gln Ala Ser Cys Ala Arg Ile Gly Ile Ala Ala Ser His 50 55 60

Trp Arg Leu Asp Cys Ser Val Asp Gly Met Gln Ala Asp Cys Leu Ser 65 70 75 80

Leu Ile

<210> 119

<211> 347

<212> PRT

<213> Homo sapiens

<400> 119

Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly Ala Val Val

1 5 10 15

Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro Pro Leu Asp 20 25 30

Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His Ser Ile Lys
35 40 45

Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile Pro Pro Leu 50 55 60

Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly Val Val Gly 65 70 75 80

Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Ala Ile Ser Ala 85 90 95

Leu Lys Val Gly Ala Asp Leu Ser His Val Phe Cys Ala Ser Ala Ala 100 105 110

Ala Pro Val Ile Lys Ala Tyr Ser Pro Glu Leu Ile Val His Pro Val 115 120 125

Leu Asp Ser Pro Asn Ala Val His Glu Val Glu Lys Trp Leu Pro Arg 130 135 140

Leu His Ala Leu Val Val Gly Pro Gly Leu Gly Arg Asp Asp Ala Leu 145 150 155 160

Leu Arg Asn Val Gln Gly Ile Leu Glu Val Ser Lys Ala Arg Asp Ile 165 170 175

p. 17

- Pro Val Val Ile Asp Ala Asp Gly Leu Trp Leu Val Ala Gln Gln Pro 180 185 190
- Ala Leu Ile His Gly Tyr Arg Lys Ala Val Leu Thr Pro Asn His Val 195 200 205
- Glu Phe Ser Arg Leu Tyr Asp Ala Val Leu Arg Gly Pro Met Asp Ser 210 215 220
- Asp Asp Ser His Gly Ser Val Leu Arg Leu Ser Gln Ala Leu Gly Asn 225 230 235 240
- Val Thr Val Val Gln Lys Gly Glu Arg Asp Ile Leu Ser Asn Gly Gln 245 250 255
- Gln Val Leu Val Cys Ser Gln Glu Gly Ser Ser Arg Arg Cys Gly Gly 260 265 270
- Gln Gly Asp Leu Leu Ser Gly Ser Leu Gly Val Leu Val His Trp Ala 275 280 285
- Leu Leu Ala Gly Pro Gln Lys Thr Asn Gly Ser Ser Pro Leu Leu Val 290 295 300
- Ala Ala Phe Gly Ala Cys Ser Leu Thr Arg Gln Cys Asn His Gln Ala 305 310 315 320
- Phe Gln Lys His Gly Arg Ser Thr Thr Thr Ser Asp Met Ile Ala Glu 325 330 335
- Val Gly Ala Ala Phe Ser Lys Leu Phe Glu Thr
- <210> 120
- <211> 163
- <212> PRT
- <213> Homo sapiens
- <400> 120
- Met Ser Ser Arg Leu Ile Tyr Thr Leu Arg Cys Gly Val Phe Ala Thr 1 5 10 15
- Phe Pro Ile Val Leu Gly Ile Leu Val Tyr Gly Leu Ser Leu Leu Cys 20 25 30
- Phe Ser Ala Leu Arg Pro Phe Gly Glu Pro Arg Arg Glu Val Glu Ile 35 40 45
- His Arg Arg Tyr Val Ala Gln Ser Val Gln Leu Phe Ile Leu Tyr Phe 50 60
- Phe Asn Leu Ala Val Leu Ser Thr Tyr Leu Pro Gln Asp Thr Leu Lys
 65 70 75 80
- Leu Leu Pro Leu Leu Thr Gly Leu Phe Ala Val Ser Arg Leu Ile Tyr

Trp Leu Thr Phe Ala Val Gly Arg Ser Phe Arg Gly Phe Gly Tyr Gly
100 105 110

Leu Thr Phe Leu Pro Leu Leu Ser Met Leu Met Trp Asn Leu Tyr Tyr 115 120 125

Met Phe Val Val Glu Pro Glu Arg Met Leu Thr Ala Thr Glu Ser Arg 130 135 140

Leu Asp Tyr Pro Asp His Ala Arg Ser Ala Ser Asp Tyr Arg Pro Arg 145 150 155 160

Pro Trp Gly

<210> 121

<211> 258

<212> PRT

<213> Homo sapiens

<400> 121

Met Tyr Ile Trp Phe Ile Ile Phe Phe Ile Gln Pro His Lys Glu Glu 1 5 10 15

Arg Phe Leu Phe Pro Val Tyr Pro Leu Ile Cys Leu Cys Gly Ala Val 20 25 30

Ala Leu Ser Ala Leu Gln Lys Cys Tyr His Phe Val Phe Gln Arg Tyr 35 40 45

Arg Leu Glu His Tyr Thr Val Thr Ser Asn Trp Leu Ala Leu Gly Thr 50 55 60

Val Phe Leu Phe Gly Leu Leu Ser Phe Ser Arg Ser Val Ala Leu Phe 65 70 75 80

Arg Gly Tyr His Gly Pro Leu Asp Leu Tyr Pro Glu Phe Tyr Arg Ile 85 90 95

Ala Thr Asp Pro Thr Ile His Thr Val Pro Glu Gly Arg Pro Val Asn 100 105 110

Val Cys Val Gly Lys Glu Trp Tyr Arg Phe Pro Ser Ser Phe Leu Leu 115 120 125

Pro Asp Asn Trp Gln Leu Gln Phe Ile Pro Ser Glu Phe Arg Gly Gln 130 140

Leu Pro Lys Pro Phe Ala Glu Gly Pro Leu Ala Thr Arg Ile Val Pro 145 150 155 160

Thr Asp Met Asn Asp Gln Asn Leu Glu Glu Pro Ser Arg Tyr Ile Asp 165 170 175

Ile Ser Lys Cys His Tyr Leu Val Asp Leu Asp Thr Met Arg Glu Thr

Pro Arg Glu Pro Lys Tyr Ser Ser Asn Lys Glu Glu Trp Ile Ser Leu 195 200 205

Ala Tyr Arg Pro Phe Leu Asp Ala Ser Arg Ser Ser Lys Leu Leu Arg 210 215 220

Ala Phe Tyr Val Pro Phe Leu Ser Asp Gln Tyr Thr Val Tyr Val Asn 225 230 235 240

Tyr Thr Ile Leu Lys Pro Arg Lys Ala Lys Gln Ile Arg Lys Lys Ser 245 250 255

Gly Gly

<210> 122

<211> 96

<212> PRT

<213> Homo sapiens

<400> 122

Met Ala Arg Ala Cys Val Phe Gln Leu Ser Leu Trp Arg Lys Leu Pro 1 5 10 15

Val Gly Ile Asn Leu Ser Pro Ala Ile Leu Ser Leu Ser Leu Gly Cys 20 25 30

Leu Gly Leu Gly Phe Leu Leu Leu Glu Arg Met Thr Thr Asp Ser 35 40 45

Gly Ile Arg Gln Arg Ser Arg His Asp Leu Leu Gly Phe Cys Gly Cys
50 55 60

Gln His Cys Arg Ser Phe Trp Arg Leu Arg Glu Ala Leu Glu Gly Ile 65 70 75 80

Gly Thr Ser Cys Cys Arg Pro Pro Gly Arg Ala Gly Leu Phe Ile Phe 85 90 95

<210> 123

<211> 72

<212> PRT

<213> Homo sapiens

<400> 123

Met Arg His Thr Cys Ile Val Asn Ile Ala Ala Ser Leu Leu Val Ala 1 5 10 15

Asn Thr Trp Phe Ile Val Val Ala Ala Ile Gln Asp Asn Arg Tyr Ile 20 25 30

Leu Cys Lys Thr Ala Cys Val Ala Ala Thr Phe Phe Ile His Phe Phe 35 40 45

Tyr Leu Ser Val Phe Phe Trp Met Leu Thr Leu Gly Pro His Ala Val 50 55 60

Leu Ser Pro Gly Phe His Ser Ala 65 70

<210> 124

<211> 275

<212> PRT

<213> Homo sapiens

<400> 124

Met Thr Ile Thr Ser Phe Tyr Ala Val Cys Phe Tyr Leu Leu Met Leu 1 5 10 15

Val Met Val Glu Gly Phe Gly Gly Lys Glu Ala Val Leu Arg Thr Leu 20 25 30

Arg Asp Thr Pro Met Met Val His Thr Gly Pro Cys Cys Cys Cys 40 45

Pro Cys Cys Pro Arg Leu Leu Thr Arg Lys Leu Gln Leu Leu 50 55 60

Met Leu Gly Pro Phe Gln Tyr Ala Phe Leu Lys Ile Thr Leu Thr Leu 65 70 75 80

Val Gly Leu Phe Leu Ile Pro Asp Gly Ile Tyr Asp Pro Ala Asp Ile 85 90 95

Ser Glu Gly Ser Thr Ala Leu Trp Ile Asn Thr Phe Leu Gly Val Ser
100 105 110

Thr Leu Leu Ala Leu Trp Thr Leu Gly Ile Ile Ser Arg Gln Ala Arg 115 120 125

Leu His Leu Gly Glu Gln Asn Met Gly Ala Lys Phe Ala Leu Phe Gln 130 140

Val Leu Leu Ile Leu Thr Ala Leu Gln Pro Ser Ile Phe Ser Val Leu 145 150 155 160

Ala Asn Gly Gly Gln Ile Ala Cys Ser Pro Pro Tyr Ser Ser Lys Thr
165 170 175

Arg Ser Gln Val Met Asn Cys His Leu Leu Ile Leu Glu Thr Phe Leu 180 185 190

Met Thr Val Leu Thr Arg Met Tyr Tyr Arg Arg Lys Asp His Lys Val 195 200 205

Gly Tyr Glu Thr Phe Ser Ser Pro Asp Leu Asp Leu Asn Ser Lys Pro 210 215 220

Lys Val Asp Gly Leu Asp Asn Glu Arg Met Leu Tyr Ser Leu Glu Tyr 225 230 235 240

Lys Ile Pro Leu Leu Ser Leu Asn Leu Asp Gln Met Gly Ser Ile Pro $245 \\ 250 \\ 255$

Pro Cys Gln His Lys Leu Ala Asp Thr Phe Asp Ser Thr Asp Glu Gly 260 265 270

Glu Gln Cys 275

<210> 125

<211> 627

<212> PRT

<213> Homo sapiens

<400> 125

Met Glu Ala Arg Val Val His Ala Leu Gln Lys Arg Gln Val Ser Leu 1 5 10 15

Leu Cys Val Phe Leu Gly Val Ser Trp Ala Gly Ala Glu Pro Leu Arg
20 25 30

Tyr Phe Val Ala Glu Glu Thr Glu Arg Gly Thr Phe Leu Ala Asn Leu 35 40 45

Ala Ile Asp Leu Gly Leu Gly Val Glu Glu Leu Ser Ala Arg Gly Cys
50 55 60

Arg Ile Val Ser Asp Glu Thr Ile Gly Phe Leu Leu Asn Pro Leu 65 70 75 80

Thr Gly Asp Leu Leu Asn Glu Lys Leu Asp Arg Glu Glu Leu Cys
85 90 95

Gly Pro Thr Glu Pro Cys Val Leu Pro Phe Gln Leu Leu Leu Glu Lys
100 105 110

Pro Phe Gln Ile Phe Arg Ala Glu Leu Trp Val Arg Asp Ile Asn Asp 115 120 125

His Ser Pro Val Phe Leu Asp Arg Glu Ile Thr Leu Asn Ile Leu Glu 130 135 140

Ser Thr Thr Pro Gly Ala Thr Phe Leu Leu Glu Ser Ala His Asp Ser 145 150 155 160

Asp Val Gly Ile Asn Asn Leu Arg Asn Tyr Thr Ile Ser Ser Asn Val

Tyr Phe His Ile Asn Val His Asp Asn Gly Glu Gly Asn Val Tyr Ser 180 185 190

Glu Leu Val Leu Asp Lys Val Leu Asp Arg Glu Glu Val Pro Glu Leu 195 200 205

Arg Leu Thr Leu Thr Gly Leu Asp Gly Gly Ser Pro Pro Arg Ser Gly 210 215 220

- Thr Thr Leu Ile Arg Ile Leu Val Leu Asp Ile Asn Asp Asn Val Pro 225 230 235 240
- Glu Phe Val Glu Ser Leu Tyr Lys Val Gln Val Pro Glu Asn Ser Pro 245 250 255
- Val Gly Ser Leu Val Val Thr Val Ser Ala Arg Asp Leu Asp Thr Gly
 260 265 270
- Ser Asn Gly Glu Ile Val Tyr Ala Phe Phe Tyr Ala Thr Glu Arg Thr 275 280 285
- Leu Lys Thr Phe Arg Ile Asn Ser Thr Ser Gly Asn Leu His Leu Lys 290 295 300
- Ala Glu Leu Asn Tyr Glu Ala Ile Gln Thr Tyr Thr Leu Thr Ile Gln 305 310 315 320
- Ala Lys Asp Gly Gly Gly Leu Ser Gly Lys Cys Thr Val Val His 325 330 335
- Val Thr Asp Ile Asn Asp Asn Pro Pro Glu Leu Leu Met Ser Ser Leu 340 345 350
- Thr Ser Pro Ile Pro Glu Asn Ser Pro Glu Thr Val Val Ala Val Phe 355 360 365
- Arg Ile Arg Asp Arg Asp Ser Gly Asn Asn Ala Lys Met Val Cys Ser 370 375 380
- Ile Gln Asp His Leu Pro Phe Val Leu Lys Pro Ser Val Glu Asn Phe 385 390 395 400
- Tyr Thr Leu Val Thr Glu Arg Ala Leu Asp Arg Glu Glu Arg Thr Glu
 405 410 415
- Tyr Asn Ile Thr Ile Thr Val Thr Asp Leu Gly Thr Pro Arg Leu Lys 420 425 430
- Thr Gln His Asn Leu Thr Val Thr Val Ser Asp Val Asn Asp Asn Ala 435 440 445
- Pro Thr Phe Ser Gln Thr Thr Tyr Thr Leu Arg Val Arg Glu Asn Asn 450 455 460
- Ser Pro Ala Leu His Ile Gly Ser Val Ser Ala Thr Asp Arg Asp Ser 465 470 475 480
- Gly Ala Asn Ala Gln Val Thr Tyr Ser Leu Leu Pro Pro His Asp Pro
 485 490 495
- Gln Leu Pro Leu Gly Ser Leu Val Ser Ile Asn Ala Asp Asn Gly Gln 500 510
- Leu Phe Ala Leu Arg Ser Leu Asp Phe Glu Ala Leu Gln Ala Phe Glu 515 520 525

Phe Arg Val Gly Ala Ala Asp Arg Gly Ser Pro Ala Leu Ser Ser Gln 530 540

Ala Leu Val Arg Val Leu Val Ala Asp Ala Asp Asp Asp Asp Asp Pro Phe 545 550 555 560

Val Leu Tyr Pro Leu Gln Asn Gly Ser Ala Pro Cys Thr Glu Leu Val 565 570 575

Pro Arg Ala Ala Glu Ala Gly Tyr Leu Val Ala Lys Val Val Ala Val
580 585 590

Asp Gly Asp Ser Gly Gln Asn Ala Trp Leu Ser Tyr Gln Leu Leu Lys 595 600

Ala Thr Glu Pro Gly Leu Phe Gly Val Trp Ala His Asn Gly Glu Val 610 615 620

Arg Thr Ala 625

<210> 126

<211> 51

<212> PRT

<213> Homo sapiens

<400> 126

Met Arg Ala Val His Pro Ala Leu Gly Leu Cys Leu Leu Pro Ala Pro 1 5 10 15

Ser Cys Gly Lys Val Leu Val Ala Gly Ala Leu Glu Gly Val Pro Ala 20 25 30

Gly Val Ala Glu Ala Glu Ala Asn Ile Ala Gln Val Pro Pro Ile Ala 35 40 45

Arg Gln Thr 50

<210> 127

<211> 74

<212> PRT

<213> Homo sapiens

<400> 127

Met Phe Thr Gly Leu Leu Ile Tyr Leu Leu Val Ser Ser Ile Leu Ile 1 5 10 15

Ser Leu Ala Asp Arg Pro Phe Ser Ser Ile Arg Cys Leu Thr Phe Trp
20 25 30

Val Gln Phe Ile Arg Leu Cys Tyr Ile Arg Asn Thr Ser Leu Leu Pro
35 40 45

Met Thr Cys Val Ala Tyr Ile Phe Phe Leu Phe Tyr Phe Phe Thr Ile 50 55 60

Gln Lys Phe Leu Val Lys Ile Ile Asn Phe 65 70

<210> 128

<211> 257

<212> PRT

<213> Homo sapiens

<400> 128

Met Ala Ser Lys Ile Gly Ser Arg Arg Trp Met Leu Gln Leu Ile Met

1 5 10 15

Gln Leu Gly Ser Val Leu Leu Thr Arg Cys Pro Phe Trp Gly Cys Phe 20 25 30

Ser Gln Leu Met Leu Tyr Ala Glu Arg Ala Glu Ala Arg Arg Lys Pro 35 40 45

Asp Ile Pro Val Pro Tyr Leu Tyr Phe Asp Met Gly Ala Ala Val Leu 50 55 60

Cys Ala Ser Phe Met Ser Phe Gly Val Lys Arg Arg Trp Phe Ala Leu 65 70 75 80

Gly Ala Ala Leu Gln Leu Ala Ile Ser Thr Tyr Ala Ala Tyr Ile Gly 85 90 95

Gly Tyr Val His Tyr Gly Asp Trp Leu Lys Val Arg Met Tyr Ser Arg 100 105 110

Thr Val Ala Ile Ile Gly Gly Phe Leu Val Leu Ala Ser Gly Ala Gly
115 120 125

Glu Leu Tyr Arg Arg Lys Pro Arg Ser Arg Ser Leu Gln Ser Thr Gly
130 135 140

Gln Val Phe Leu Gly Ile Tyr Leu Ile Cys Val Ala Tyr Ser Leu Gln 145 150 155 160

His Ser Lys Glu Asp Arg Leu Ala Tyr Leu Asn His Leu Pro Gly Gly 165 170 175

Glu Leu Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala Leu 180 185 190

Ala Phe Leu Ser Gly Tyr Tyr Val Thr Leu Ala Ala Gln Ile Leu Ala 195 200 205

Val Leu Leu Pro Pro Val Met Leu Leu Ile Asp Gly Asn Val Ala Tyr 210 215 220

Trp His Asn Thr Arg Arg Val Glu Phe Trp Asn Gln Met Lys Leu Leu 225 230 235 240

Gly Glu Ser Val Gly Ile Phe Gly Thr Ala Val Ile Leu Ala Thr Asp 245 250 255 Ġly

<210> 129

<211> 348

<212> PRT

<213> Homo sapiens

<400> 129

Met Lys Glu Asp Cys Leu Pro Ser Ser His Val Pro Ile Ser Asp Ser 1 5 10 15

Lys Ser Ile Gln Lys Ser Glu Leu Leu Gly Leu Leu Lys Thr Tyr Asn 20 25 30

Cys Tyr His Glu Gly Lys Ser Phe Gln Leu Arg His Arg Glu Glu Glu 35 40 45

Gly Thr Leu Ile Ile Glu Gly Leu Leu Asn Ile Ala Trp Gly Leu Arg
50 55 60

Arg Pro Ile Arg Leu Gln Met Gln Asp Asp Arg Glu Gln Val His Leu 65 70 75 80

Pro Ser Thr Ser Trp Met Pro Arg Arg Pro Ser Cys Pro Leu Gly Cys 85 90 95

Trp Ser Leu Leu Gly Leu Ser Ser Leu Ser Leu Pro Ala Ala Ile 100 105 110

Ser Ala Leu Gln Leu Ser Val Phe Arg Lys Glu Pro Ser Pro Gln Asn 115 120 125

Gly Asn Ile Thr Ala Gln Gly Pro Ser Ile Gln Pro Val His Lys Ala 130 135 140

Glu Ser Ser Thr Asp Ser Ser Gly Pro Leu Glu Glu Ala Glu Glu Ala 145 150 155 160

Pro Gln Leu Met Arg Thr Lys Ser Asp Ala Ser Cys Met Ser Gln Arg 165 170 175

Arg Pro Lys Cys Arg Ala Pro Gly Glu Ala Gln Arg Ile Arg Arg His 180 185 190

Arg Phe Ser Ile Asn Gly His Phe Tyr Asn His Lys Thr Ser Val Phe 195 200 205

Thr Pro Ala Tyr Gly Ser Val Thr Asn Val Arg Val Asn Ser Thr Met 210 215 220

Thr Thr Leu Gln Val Leu Thr Leu Leu Leu Asn Lys Phe Arg Val Glu 225 230 235 240

Asp Gly Pro Ser Glu Phe Ala Leu Tyr Ile Val His Glu Ser Gly Glu 245 250 255 Arg Thr Lys Leu Lys Asp Cys Glu Tyr Pro Leu Ile Ser Arg Ile Leu 260 265 270

His Gly Pro Cys Glu Lys Ile Ala Arg Ile Phe Leu Met Glu Ala Asp 275 280 285

Leu Gly Val Glu Val Pro His Glu Val Ala Gln Tyr Ile Lys Phe Glu 290 295 300

Met Pro Val Leu Asp Ser Phe Val Glu Lys Leu Lys Glu Glu Glu Glu 305 310 315 320

Arg Glu Ile Ile Lys Leu Thr Met Lys Phe Gln Ala Leu Arg Leu Thr 325 330 335

Met Leu Gln Arg Leu Glu Gln Leu Val Glu Ala Lys 340 345

<210> 130

<211> 95

<212> PRT

<213> Homo sapiens

<400> 130

Met Ser Ala Trp Leu Val Ser Leu Cys Ala Trp Leu Ser Leu Leu Arg 1 5 10 15

Ala Thr Val Thr Ser Gln Val Ser Ser Ser Pro Ala Pro Val Val Ala 20 25 30

Ser Gly Thr Leu Ser Pro Cys His Pro Pro Gly Ser Pro Ala Ala Ser

Ala Cys Leu Leu Ser Pro Gln Ser Pro Cys Arg Arg Ala Ser Lys Trp
50 55 60

Arg Ser His Met Thr Gly Val Ala Pro Ser Asn Arg Gly Ser Ser Cys
65 70 75 80

Glu Ser Ser Gly Ser Gln Gly Lys Pro Ser Gln Arg Ala Gly Ala 85 90 95

<210> 131

<211> 60

<212> PRT

<213> Homo sapiens

<400> 131

Met His Ile Pro Leu Trp Pro Asn Trp Leu Leu Phe Val Cys Lys Leu
1 10 15

Leu Phe Leu Ser His Pro Ile Leu Leu Ala Cys Val Lys Cys Lys Ser 20 25 30

Gln Val Phe Pro Ala Gly Ser Asn Val Phe Leu Ser Leu Asn Gln Gly

Pro Thr Gly Cys Leu Leu Gln Ile Lys Phe Tyr 50 55 60

<210> 132

<211> 267

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 132

Met Ser Glu Ile Arg Gly Lys Pro Ile Glu Ser Ser Cys Met Tyr Gly
1 5 10 15

Thr Cys Cys Leu Trp Gly Lys Thr Tyr Ser Ile Gly Phe Leu Arg Phe 20 25 30

Cys Lys Gln Ala Thr Leu Gln Phe Cys Val Val Lys Pro Leu Met Ala 35 40 45

Val Ser Thr Val Val Leu Gln Ala Phe Gly Lys Tyr Arg Asp Gly Asp 50 55 60

Phe Asp Val Thr Ser Gly Tyr Leu Tyr Val Thr Ile Ile Tyr Asn Ile 65 70. 75 80

Ser Val Ser Leu Ala Leu Tyr Ala Leu Phe Leu Phe Tyr Phe Ala Thr 85 90 95

Arg Glu Leu Leu Ser Pro Tyr Ser Pro Val Leu Lys Phe Phe Met Val
100 105 110

Lys Ser Val Ile Phe Leu Ser Phe Trp Gln Gly Met Leu Leu Ala Ile 115 120 125

Leu Glu Lys Cys Gly Ala Ile Pro Lys Ile His Ser Ala Arg Val Ser 130 135 140

Val Gly Glu Gly Thr Val Ala Ala Gly Tyr Gln Asp Phe Ile Ile Cys 145 150 155 160

Val Glu Met Phe Phe Ala Ala Leu Ala Leu Arg Xaa Ala Phe Xaa Tyr 165 170 175

Lys Val Tyr Ala Asp Lys Arg Leu Asp Ala Gln Gly Arg Cys Ala Pro 180 185 190 Met Lys Ser Ile Ser Ser Ser Leu Lys Glu Thr Met Asn Pro His Asp 195 200 205

Ile Val Gln Asp Ala Ile His Asn Phe Ser Pro Ala Tyr Gln Gln Tyr 210 215 220

Thr Gln Gln Ser Thr Leu Glu Pro Gly Pro Thr Trp Arg Gly Gly Ala 225 230 235 240

His Gly Leu Ser Arg Ser His Ser Leu Ser Gly Ala Arg Asp Asn Glu
245 250 255

Lys Thr Leu Leu Ser Ser Asp Asp Glu Phe 260 265

<210> 133

<211> 115

<212> PRT

<213> Homo sapiens

<400> 133

Met Ser Asp Phe Ser Asn Leu Ser Leu Leu Phe Phe Leu Leu Val Ser 1 5 10 15

Leu Ala Lys Gly Leu Ser Ile Leu Phe Ile Tyr Ser Glu Asn His Leu 20 25 30

Leu Val Leu Phe Ile Phe Leu Ile Phe Lys Glu Thr Thr Arg Pro Ala 35 40 45

Ala Phe Cys Val Ser Val Glu Ser Cys Tyr Gly Ser Gly Ser Cys Leu 50 60

Ser Ser Leu Ser Val Glu Trp Pro Gly Gln Cys Met Trp Arg Leu Leu 65 70 75 80

Arg Leu Pro Phe Thr Arg Val Ala Leu Pro Leu Pro Val Trp His Phe 85 90 95

His Val Thr Phe Leu Leu Lys Ser Trp Phe Thr Ala Lys Val Leu Ala
100 105 110

Phe Ile Gln 115

<210> 134

<211> 84

<212> PRT

<213> Homo sapiens

<400> 134

Met Gly Ile Trp Val Leu Ala Leu Trp Val Gly Cys Leu Cys Ser Ser 1 5 10 15

Thr Gly Leu Pro Val Val Leu Thr Asn Val Glu Leu Gly Leu Arg Cys
20 25 30

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Glu Arg Thr Ala Met Ala Cys Cys Asn Gly Ser Ser Leu Val His Pro
35 40 45
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- Arg Cys Ser Leu Ala Ser Val Cys Ile Ser Ala Pro Pro Ser Pro Ser 50 55
- Val Pro Trp Lys Lys Val Arg Pro Arg Gly Gln Ile Ala Ser Thr Val 65 70 75 80

Val Trp Thr His

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<210> 135
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<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 135

Met Arg Val Thr Xaa Ala Thr Xaa Ala Leu Leu Leu Ala Xaa Ile Cys 1 5 10 15

Ser Val Gln Leu Gly Asp Ala Cys Leu Asp Ile Asp Lys Leu Leu Ala 20 25 30

Asn Val Val Phe Asp Val Ser Gln Asp Leu Leu Lys Glu Glu Leu Ala 35 40 45

Arg Tyr Asn Pro Ser Pro Leu Thr Glu Glu Ser Phe Leu Asn Val Gln 50 55 60

Gln Cys Phe Ala Asn Val Ser Val Thr Glu Arg Phe Ala His Ser Val 65 70 75 80

Val Ile Lys Lys Ile Leu Gln Ser Asn Asp Cys Ile Glu Ala Ala Phe 85 90 95 <211> 43

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<212> PRT
<213> Homo sapiens
<400> 136
Met Leu Val Ser Ser Pro Phe Ser Ser Pro Val Ser Phe Trp Ala Val
Phe Val Cys Leu Leu Leu Tyr Lys Ile Arg Thr Val Asn Tyr Leu
Leu Cys Arg Ser Pro Ala Phe His Ser Ala Leu
         35
<210> 137
<211> 41
<212> PRT
<213> Homo sapiens
<400> 137
Met Glu Pro Cys Leu Ala Val Ala Leu Ser Val Tyr Ile Trp Leu Arg
Ala Thr Ser Ala Lys Leu Leu Pro Asp Leu Asn Glu Ser Ala Glu Ile
Ile Gly Pro Ser Ala Ala Glu Lys Lys
         35
                             40
<210> 138
<211> 52
<212> PRT
<213> Homo sapiens
<400> 138
Met Lys Cys Phe Phe Leu Phe Val Val Ile Leu Ile Ile Met Lys Ser
                  5
Asn Leu Ser Asp Ile Ile Ile Ala Thr Tyr Thr Tyr Cys Ile Pro Asp
Tyr Phe Phe His Thr Phe Ile Phe Asn Leu Ser Val Tyr Leu Asn Ser
Lys Phe Ile Ser
     50
<210> 139
<211> 43
<212> PRT
<213> Homo sapiens
Met Ile Val Tyr Tyr Leu Ala Phe Phe Gly Leu Leu Asp Leu Cys Leu
 1
                  5
                                     10
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Gly Glu Gly Asn Phe Ser Ala Arg Glu Ala Val Trp Val Ile Cys Phe Phe Ala Arg Asp Tyr Ser Pro Lys Tyr Tyr Arg <210> 140 <211> 48 <212> PRT <213> Homo sapiens <400> 140 Met Ile Leu Gly Leu Leu Asn Leu Leu Arg Ile Val Val Phe Leu Ile Ala Trp Ser Ile Leu Glu Tyr Val Thr His Gly Asp Glu Lys Asp Ile 20 Tyr Thr Met Leu Val Ser Asp Glu Glu Phe His Ile Cys Leu Leu Glu <210> 141 <211> 410 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (78) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (168) <223> Xaa equals any of the naturally occurring L-amino acids <400> 141 Met Asn Pro Ala Val Arg Gln Arg Cys Leu Leu Phe Cys Phe Gln Gln Lys Leu Ile Leu Ser His Phe Phe Leu Leu Gln Val Pro Gln Trp Cys Ala Glu Tyr Cys Leu Ser Ile His Tyr Gln His Gly Gly Val Ile Cys 40 Thr Gln Val His Lys Gln Thr Val Val Gln Leu Ala Leu Arg Val Ala

Asp Glu Met Asp Val Asn Ile Gly His Glu Val Gly Tyr Xaa Ile Pro

- Phe Glu Asn Cys Cys Thr Asn Glu Thr Ile Leu Arg Tyr Cys Thr Asp 85 90 95
- Asp Met Leu Gln Arg Glu Met Met Ser Asn Pro Phe Leu Gly Ser Tyr
 100 105 110
- Gly Val Ile Ile Leu Asp Asp Ile His Glu Arg Ser Ile Ala Thr Asp 115 120 125
- Val Leu Leu Gly Leu Leu Lys Asp Val Leu Leu Ala Arg Pro Glu Leu 130 135 140
- Lys Leu Ile Ile Asn Ser Ser Pro His Leu Ile Ser Lys Leu Asn Ser 145 150 155 160
- Tyr Tyr Gly Asn Val Pro Val Xaa Glu Val Lys Asn Lys His Pro Val 165 170 175
- Glu Val Val Tyr Leu Ser Glu Ala Gln Lys Asp Ser Phe Glu Ser Ile 180 185 190
- Leu Arg Leu Ile Phe Glu Ile His His Ser Gly Glu Lys Gly Asp Ile 195 200 205
- Val Val Phe Leu Ala Cys Glu Gln Asp Ile Glu Lys Val Cys Glu Thr 210 215 220
- Val Tyr Gln Gly Ser Asn Leu Asn Pro Asp Leu Gly Glu Leu Val Val 225 230 235 240
- Val Pro Leu Tyr Pro Lys Glu Lys Cys Ser Leu Phe Lys Pro Leu Asp 245 250 255
- Glu Thr Glu Lys Arg Cys Gln Val Tyr Gln Arg Arg Val Val Leu Thr 260 265 270
- Thr Ser Ser Gly Glu Phe Leu Ile Trp Ser Asn Ser Val Arg Phe Val 275 280 285
- Ile Asp Val Gly Val Glu Arg Arg Lys Val Tyr Asn Pro Arg Ile Arg 290 295 300
- Ala Asn Ser Leu Val Met Gln Pro Ile Ser Gln Ser Gln Ala Glu Ile 305 310 315 320
- Arg Lys Gln Ile Leu Gly Ser Ser Ser Gly Lys Phe Phe Cys Leu 325 330 335
- Tyr Thr Glu Glu Phe Ala Ser Lys Asp Met Thr Pro Leu Lys Pro Ala 340 345 350
- Glu Met Gln Glu Ala Asn Leu Thr Ser Met Val Leu Phe Met Lys Arg
 355 360 365
- Ile Asp Ile Ala Gly Leu Gly His Cys Asp Phe Met Asn Arg Pro Gly 370 375 380
- Ser Leu Met Leu Pro Cys Gln Pro Gly Ile Arg Leu Arg Phe Thr Phe

L

385 390 395 400

Ser Cys Pro Phe Ser Val Leu Ser Ser His
405 410

<210> 142

<211> 64

<212> PRT

<213> Homo sapiens

<400> 142

Met Leu Arg Phe Leu Gly Asn Gln Met Tyr Ala Leu Tyr Thr Trp Leu

1 10 15

Leu Leu Gln Ser Pro Val Cys Ser Ala Val Leu Val Thr Ser Ala Leu
20 25 30

Leu Tyr Pro Ser Leu Leu Thr Leu Arg Pro Ser Gln Ala His Ala Ala 35 40 45

Cys Ile Tyr Leu Pro Ser Val Ser Leu Val Ser Leu Ser Asp Pro Phe 50 60

<210> 143

<211> 43

<212> PRT

<213> Homo sapiens

<400> 143

Met Asn Leu Ile Phe Arg Leu Pro Cys Ile Leu Leu Thr Cys Ile Tyr

1 10 15

Val Gln Gln Cys Val Cys Lys Tyr Ile Gly Thr Phe Leu Asn Arg Val 20 25 30

Cys Ala Met Cys Lys Gly Leu Leu Thr Val Lys 35 40

<210> 144

<211> 58

<212> PRT

<213> Homo sapiens

<400> 144

Met Val Ser Phe Gly Phe Trp Phe Leu Cys Leu Phe Phe Gly Val Trp

1 10 15

Lys Asn Met His Phe Tyr Arg Ala Arg Lys Leu Val Ser Arg Lys Gly

Ser Pro Glu Lys Ala Ala Asp Gly Pro Cys Pro Cys Trp Val Phe Leu 35 40 45

Phe Phe Gly Thr Val Arg Gly Asn Gly Phe <210> 145 <211> 103 <212> PRT <213> Homo sapiens <400> 145 Met Ala His Ile Gly Ala Cys Val Ser Phe Val Phe Phe Leu Leu Gln Gly Ala Val Ser Val Trp Thr Phe Cys Phe Arg Glu Leu Glu Arg Arg Val Ser Ala Glu Gly Gly Glu Gln Gly Gln Arg Pro His Trp Pro Pro Pro Ala Ser Gln Ser Glu Thr Leu Cys Leu Val Thr Lys Val Pro Pro Lys Cys Ser Ser Phe Trp Val Ile Gln Ala Lys Tyr Leu Gly Phe Pro Leu Ser Ser Phe Pro Ser Lys Pro Gln Leu Ser Phe Lys Ile Gly Asp .Ile Ser His Pro Leu Pro Leu 100 <210> 146 <211> 44 <212> PRT <213> Homo sapiens <400> 146 Met Met Pro Leu Lys Leu His Ala Lys Cys Leu Tyr Leu Leu Lys Cys Val Phe Phe Val Gly Val Gly Gly Met Thr Phe Tyr Gln Ile Leu Thr Gly Phe Lys Ile Gln Lys Ser Leu Asp Leu Val Gly <210> 147 <211> 87 <212> PRT <213> Homo sapiens <400> 147

Met Asp Leu Thr Val Glu Gly Phe Gln Ser Trp Met Trp Arg Gly Leu

Thr Phe Leu Pro Phe Leu Phe Phe Gly His Phe Trp Gln Leu Phe 20 25 30

Asn Ala Leu Thr Leu Phe Asn Leu Ala Gln Asp Pro Gln Cys Lys Glu 35 40 45

Trp Gln Val Leu Met Cys Gly Phe Pro Phe Leu Leu Phe Leu Gly
50 55 60

Asn Phe Phe Thr Thr Leu Arg Val Val His His Lys Phe His Ser Gln 65 70 75 80

Arg His Gly Ser Lys Lys Asp

<210> 148

<211> 65

<212> PRT

<213> Homo sapiens

<400> 148

Met Ala Ser Pro Ser Ile Ile Leu Leu Leu Ile Phe Phe Phe Phe 1 5 10 15

Phe Phe Ser Val Cys Ser Val Ser Gln Tyr Met Phe Glu Asn Glu Cys 20 25 30

Glu Ser Met Ser Arg Arg Gly Arg Gly Leu Gly Arg Ser Arg Leu
35 40 45

Lys Val Glu Gln Gly Pro Asp Ala Asp Leu His Pro Arg Thr Leu Gly 50 55 60

Ser 65

<210> 149

<211> 87

<212> PRT

<213> Homo sapiens

<400> 149

Met Thr Ala Trp Ile Leu Leu Pro Val Ser Leu Ser Ala Phe Ser Ile 1 5 10 15

Thr Gly Ile Trp Thr Val Tyr Ala Met Ala Val Met Asn His His Val
20 25 30

Cys Pro Val Glu Asn Trp Ser Tyr Asn Glu Ser Cys Pro Pro Asp Pro 35 40 45

Ala Glu Gln Gly Gly Pro Lys Thr Cys Cys Thr Leu Asp Asp Val Pro 50 55 60

Leu Ile Ser Gly Pro Asp Leu Pro Pro Ala Leu Arg Ala Ala Pro Gly
65 70 75 80

Ala Glu Ser Ala Leu Leu Gly 85

<210> 150

<211> 56

<212> PRT

<213> Homo sapiens

<400> 150

Met Lys Ile Pro Leu His Val Val Phe Leu Leu Ile Ser Leu Thr Phe 1 5 10 15

Leu Phe Thr Thr Leu Pro Thr Ala His Ser Ala Pro Ser Ser Pro Ala 20 25 30

Ser Leu His Ile Leu Arg Leu Arg Gly His Leu Met Cys Val Phe Pro 35 40 45

Leu Lys Met Met Pro Thr Leu Ile 50 55

<210> 151

<211> 45

<212> PRT

<213> Homo sapiens

<400> 151

Met Val Gln Trp Lys Asn Trp Pro Glu Ser Leu Glu Val Trp Val Leu 1 5 10 15

Val Leu Ala Val Pro Leu Thr His Cys Asp Leu Gly Ile Leu Cys Cys 20 25 30

Glu Asp Ile Ser Gln Val Leu His Val Ser Gln Gln Ile
-35 40 45

<210> 152

<211> 52

<212> PRT

<213> Homo sapiens

<400> 152

Met Asp Ser Cys Leu Phe Leu Arg Asp Phe Cys Trp Lys Met Arg Met 1 5 10 15

Leu Thr Ile Leu Pro Leu Gly Thr Leu Phe Pro Leu Leu Thr Leu Leu 20 25 30

Leu Leu Pro Leu Glu Val Pro Ser Val Ser Cys Gly Val Pro Phe Ala 35 40 45

Val Trp Asp Leu

50

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<210> 153 <211> 80
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<212> PRT

<213> Homo sapiens

<400> 153

Met Ala Leu Trp Val Thr Cys Ile Leu Ser Leu Cys Thr Trp Phe Ser 1 5 10 15

Cys Leu Tyr Gly Ala Asp Ser Leu Ala Asn Lys Cys Leu Ser Ala Gly 20 25 30

Ala Thr Arg Lys Ala Phe Pro Phe Cys Val Leu Phe Arg Asp Leu Glu 35 40 45

Val Gly Leu Gly Phe Glu Gly Phe Val Thr His Leu Ala Cys Lys Leu 50 55 60

Phe Cys Tyr Cys Glu Leu Ser Asp Ser Ala Leu Ser Leu Gly His Glu 65 70 75 80

<210> 154

<211> 64

<212> PRT

<213> Homo sapiens

<400> 154

Met Asn Ile Pro Trp Leu Tyr Phe Val Asn Ser Phe Leu Ile Ala Thr 1 5 10 15

Val Tyr Trp Phe Asn Cys His Lys Leu Asn Leu Lys Asp Ile Gly Leu 20 25 30

Pro Leu Asp Pro Phe Val Asn Trp Lys Cys Cys Phe Ile Pro Leu Thr 35 40 45

Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro Ile Ser Ile Met Ile Cys 50 55 60

<210> 155

<211> 51

<212> PRT

<213> Homo sapiens

<400> 155

Met Ser Phe Asp Ala Glu Lys Phe Leu Ile Leu Lys Phe Ile Leu Gln 1 5 10 15

Phe Phe Leu Leu Tyr Val Leu Phe Leu Val Leu Tyr Leu Arg Ile

Cys Cys His Thr Gln Gly His Glu Asp Leu Pro Val Cys Tyr Leu Leu 35 40 45

Arg Val Leu 50

<210> 156

<211> 78

<212> PRT

<213> Homo sapiens

<400> 156

Met Ala Lys Arg Ser Ser Ser Leu Ser Ser Ser Lys Arg Leu Val Phe 1 5 10 15

Phe Thr Ala Leu Ala Ser Trp Leu Trp Arg Val Pro Glu Ser Leu Gly
20 25 30

Ser Pro Leu Asp Leu Leu Ser Asp Ala Lys Trp Val Cys Glu Ala Gly 35 40 45

Ile Phe His Trp Ser Ser Ser Leu Leu Asn Asn Arg Ala Asp Ala 50 55 60

Phe Phe Leu Glu Ser Ser Glu Ala Phe Ala Phe Ser Ser Leu 65 70 75

<210> 157

The same train to the same train train to the same train tra

<211> 47

<212> PRT

<213> Homo sapiens

<400> 157

Met Lys Met Asn Lys Leu Phe Trp Ile Arg Ile Leu Lys Leu Leu 1 5 10 15

Gln Äla Leu Ser Gln Cys Lys Leu Leu Ile Lys Gly Gln Val Ala Val 20 25 30

Pro Lys Asp Leu Ile Met Asp Ser Glu Ile Ala Lys Val Thr Asn
35 40 45

<210> 158

<211> 53

<212> PRT

<213> Homo sapiens

<400> 158

Met Asn Leu Leu His Cys Leu Tyr Met Ile Asn Ile Ile Ile Tyr Ile 1 5 10 15

Phe Cys Ile Lys Leu Ile Trp Leu His Leu Ser Cys Ile Leu Ser His 20 25 30 Ile Ser Phe Ile Ser Ser Met Asp Met Ser Arg Ser Leu Tyr Trp Ser 35 40 45

Pro Val Cys Ala Val 50

<210> 159

<211> 262

<212> PRT

<213> Homo sapiens

<400> 159

Met Arg Leu Arg Leu Arg Leu Leu Leu Leu Leu Leu Leu Ala 1 5 10 15

Pro Pro Ala Arg Ala Pro Lys Pro Ser Ala Gln Asp Val Ser Leu Gly
20 25 30

Val Asp Trp Leu Thr Arg Tyr Gly Tyr Leu Pro Pro Pro His Pro Ala 35 40 45

Gln Ala Gln Leu Gln Ser Pro Glu Lys Leu Arg Asp Ala Ile Lys Val 50 55 60

Met Gln Arg Phe Ala Gly Leu Pro Glu Thr Gly Arg Met Asp Pro Gly 65 70 75 80

Thr Val Ala Thr Met Arg Lys Pro Arg Cys Ser Leu Pro Asp Val Leu 85 90 95

Gly Val Ala Gly Leu Val Arg Arg Gly Arg Arg Tyr Ala Leu Ser Gly
100 105 110

Ser Val Trp Lys Lys Arg Thr Leu Thr Trp Arg Val Arg Ser Phe Pro 115 120 125

Gln Ser Ser Gln Leu Ser Gln Glu Thr Val Arg Val Leu Met Ser Tyr 130 135 140

Ala Leu Met Ala Trp Gly Met Glu Ser Gly Leu Thr Phe His Glu Val 145 150 155 160

Asp Ser Pro Gln Gly Gln Glu Pro Asp Ile Leu Ile Asp Phe Ala Arg 165 170 175

Ala Phe His Gln Asp Ser Tyr Pro Phe Asp Gly Leu Gly Gly Thr Leu 180 185 190

Ala His Ala Phe Phe Pro Gly Glu His Pro Ile Ser Gly Asp Thr His 195 200 205

Phe Asp Asp Glu Glu Thr Trp Thr Phe Gly Ser Lys Asp Gly Glu Gly 210 215 220

Thr Asp Leu Phe Ala Val Ala Val His Glu Phe Gly His Ala Leu Gly 225 230 235 240

Leu Gly His Ser Ser Ala Pro Asn Ser Ile Met Arg Pro Phe Tyr Gln 245 250 255

Gly Pro Val Gly Arg Pro 260

<210> 160

<211> 95

<212> PRT

<213> Homo sapiens

<400> 160

Met Thr Leu Ala Leu Ala Tyr Leu Leu Ala Leu Pro Gln Val Leu Asp 1 5 10 15

Ala Asn Arg Cys Phe Glu Lys Gln Ser Pro Ser Ala Leu Ser Leu Gln
20 25 30

Leu Ala Ala Tyr Tyr Tyr Ser Leu Gln Ile Tyr Ala Arg Leu Ala Pro
35 40 45

Cys Phe Arg Asp Lys Cys His Pro Leu Tyr Arg Glu Leu Ile Thr Tyr 50 55 60

Val Ser Arg Met Tyr Ser Lys Trp Gln Ala Ala Leu Gly Phe Pro Val 65 70 75 80

Phe Asp Lys Val Ala Ser Pro Gly Ile Ser Trp Arg Thr Val Val 85 90 95

<210> 161

<211> 120

<212> PRT

<213> Homo sapiens

<400> 161

Met Leu Asn Leu Gly Ser Trp Pro Gly Leu Val Ala Ala Ser Leu Phe 1 5 10 15

Leu Leu Lys Gly Val Phe Ser Leu Phe Val Gln Leu Leu Lys Asn Pro

Leu Gln His Pro Arg Asn Arg Ala Thr His Leu Leu Ala Thr Pro Gly
35 40 45

Ala Arg Val Leu Gln Glu His Leu Ser Ile His Pro Val Cys His Gln 50 55 60

Ser His Pro Pro Glu Ala Pro Leu Leu Pro Pro Ser Thr Arg Ala Ser 65 70 75 80

Leu Gln Ala Ser Pro Pro Pro Pro Pro Ser Ser Gln His Pro Gly Gly 85 90 95

Thr Pro Ala Ala Cys Leu Gln Ser Lys Leu Pro Ile Thr His Arg Arg

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100 105 110

Ser Pro Leu Arg Arg Pro Arg His 115 120

<210> 162

<211> 121

<212> PRT

<213> Homo sapiens

<400> 162

Met Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr 1 5 10 15

Ile Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr 20 25 30

Pro Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val 35 40 45

Tyr Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser 50 55 60

Leu Leu Gln Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala 65 70 75 80

Lys Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val 85 90 95

Met Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Ser Asp Phe Gln Leu 100 105 110

Phe Phe His His Phe Tyr His His Gln 115 120

<210> 163

<211> 310

<212> PRT

<213> Homo sapiens

<400> 163

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro
1 5 10 15

Asp Phe Phe Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val 20 25 30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser 35 40 45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
50 60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe 65 70 75 80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly 85 90 95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu 100 105 110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu 115 120 125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys 130 135 140

Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys 145 150 155 160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn 165 170 175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn 180 185 190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala 195 200 205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp 210 215 220

Ala Gly Ser Ala Arg Cys Glu Glu Glu Glu Met Glu Val Tyr Asp Leu 225 230 235 240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu 245 250 255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe 260 265 270

Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro 275 280 285

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His 290 295 300

Lys Ser Ser Phe Val Ile 305 310

<210> 164

<211> 310

<212> PRT

<213> Homo sapiens

<400> 164

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro

1 5 10 15

Asp Phe Phe Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser 35 40 45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
50 60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe 65 70 75 80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly 85 90 95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu 100 105 110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu 115 120 125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys 130 135 140

Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys 145 150 155 160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn 165 170 175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn 180 185 190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala 195 200 205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp 210 215 220

Ala Gly Ser Ala Arg Cys Glu Glu Glu Glu Met Glu Val Tyr Asp Leu 225 230 235 240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu 245 250 255

Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe 260 265 270

Ile Asn Asn Lys^Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro 275 280 285

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His 290 295 300

Lys Ser Ser Phe Val Ile

<210> 165

<211> 170

<212> PRT

<213> Homo sapiens

<400> 165

Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg

1 10 15

Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp
. 20 25 30

Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys
35 40 45

Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile 50 55 60

Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr 65 70 75 80

Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln 85 90 95

Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly
100 105 110

Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln
115 120 125

Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu 130 135 140

Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His 145 150 155 160

Ala Val His Pro Thr Gly Thr Lys Ala Leu 165 170

<210> 166

<211> 114

<212> PRT

<213> Homo sapiens

<400> 166

Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly Ala Val Val 1 5 10 15

Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro Pro Leu Asp 20 25 30

Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His Ser Ile Lys 35 40 45

Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile Pro Pro Leu 50 55 60

Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly Val Val Gly 65 70 75 80

Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Glu Ser Gln Leu 85 90 95

Ser Lys Trp Ala Gln Thr Cys Pro Thr Cys Ser Val Pro Val Arg Pro 100 105 110

His Leu

<210> 167

<211> 114

<212> PRT

<213> Homo sapiens

<400> 167

Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly Ala Val Val 1 5 10 15

Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro Pro Leu Asp 20 25 30

Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His Ser Ile Lys 35 40 45

Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile Pro Pro Leu 50 55 60

Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly Val Val Gly 65 70 75 80

Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Glu Ser Gln Leu 85 90 95

Ser Lys Trp Ala Gln Thr Cys Pro Thr Cys Ser Val Pro Val Arg Pro 100 . 105 110

His Leu

<210> 168

<211> 56

<212> PRT

<213> Homo sapiens

<400> 168

Met Ala Arg Ala Cys Val Phe Gln Leu Ser Leu Trp Arg Lys Leu Pro 1 5 10 15

Val Gly Ile Asn Leu Ser Pro Ala Ile Leu Ser Leu Ser Leu Gly Cys
20 25 30

Leu Gly Leu Gly Phe Leu Leu Leu Glu Arg Met Thr Thr Asp Ser

Gly Ile Arg Gln Arg Arg Gln Thr

<400> 171

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<210> 169
<211> 51
<212> PRT
<213> Homo sapiens
<400> 169
Met Arg Ala Val His Pro Ala Leu Gly Leu Cys Leu Leu Pro Ala Pro
Ser Cys Gly Lys Val Leu Val Ala Gly Ala Leu Glu Gly Val Pro Ala
Gly Val Ala Glu Ala Glu Ala Asn Ile Ala Gln Val Pro Pro Ile Ala
                             40
Arg Gln Thr
     50
<210> 170
<211> 120
<212> PRT
<213> Homo sapiens
<400> 170
Met Leu Pro Ala Leu Arg Gly Leu Leu Phe Val Thr Trp Val Phe Pro
Leu Glu Asp Gln Glu Ala Ala Ala Phe Pro Gly Glu Val Asp Pro Pro
Ser Pro Phe Gly Pro Cys Thr Ala Glu Gly Pro Ala Ala Leu Pro Ala
Arg Val Trp Ser Val Lys Gln Gly Leu Arg Pro Phe Ser Cys Ser Asp
Ala Pro Gln Gly Asp Ser Arg Glu Leu Ala Lys Pro Pro Gly Leu Pro
Pro Val Arg Gly Ala Leu Val Thr Trp Pro Pro Pro Gln Pro Thr Gly
Leu Ser Arg Leu Arg Cys His Pro His Gly Thr Gly Gly Asn His Ser
Ile Arg Cys Arg Arg Cys Arg Pro
        115
<210> 171
<211> 263
<212> PRT
<213> Homo sapiens
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Met Pro Arg Arg Pro Ser Cys Pro Leu Gly Cys Trp Ser Leu Leu Leu 1 5 10 15

Gly Leu Ser Ser Leu Ser Leu Pro Ala Ala Ile Ser Ala Leu Gln Leu 20 25 30

Ser Val Phe Arg Lys Glu Pro Ser Pro Gln Asn Gly Asn Ile Thr Ala 35 40 45

Gln Gly Pro Ser Ile Gln Pro Val His Lys Ala Glu Ser Ser Thr Asp 50 55 60

Ser Ser Gly Pro Leu Glu Glu Ala Glu Glu Ala Pro Gln Leu Met Arg 65 70 75 80

Thr Lys Ser Asp Ala Ser Cys Met Ser Gln Arg Arg Pro Lys Cys Arg 85 90 95

Ala Pro Gly Glu Ala Gln Arg Ile Arg Arg His Arg Phe Ser Ile Asn 100 105 110

Gly His Phe Tyr Asn His Lys Thr Ser Val Phe Thr Pro Ala Tyr Gly 115 120 125

Ser Val Thr Asn Val Arg Val Asn Ser Thr Met Thr Thr Leu Gln Val 130 135 140

Leu Thr Leu Leu Leu Asn Lys Phe Arg Val Glu Asp Gly Pro Ser Glu
145 150 155 160

Phe Ala Leu Tyr Ile Val His Glu Ser Gly Glu Arg Thr Lys Leu Lys 165 170 175

Asp Cys Glu Tyr Pro Leu Ile Ser Arg Ile Leu His Gly Pro Cys Glu 180 185 190

Lys Ile Ala Arg Ile Phe Leu Met Glu Ala Asp Leu Gly Val Glu Val 195 200 205

Pro His Glu Val Ala Gln Tyr Ile Lys Phe Glu Met Pro Val Leu Asp 210 215 220

Ser Phe Val Glu Lys Leu Lys Glu Glu Glu Glu Arg Glu Ile Ile Lys 225 230 235 240

Leu Thr Met Lys Phe Gln Ala Leu Arg Leu Thr Met Leu Gln Arg Leu
245 250 255

Glu Gln Leu Val Glu Ala Lys 260

<210> 172

<211> 157

<212> PRT

<213> Homo sapiens

<400> 172

Met Val Lys Ser Val Ile Phe Leu Ser Phe Trp Gln Gly Met Leu Leu 1 5 10 15

Ala Ile Leu Glu Lys Cys Gly Ala Ile Pro Lys Ile His Ser Ala Arg 20 25 30

Val Ser Val Gly Glu Gly Thr Val Ala Ala Gly Tyr His Asp Phe Ile 35 40 45

Ile Cys Val Glu Met Phe Phe Ala Ala Leu Ala Leu Arg His Pro Phe 50 55 60

Thr Tyr Asn Val Tyr Ala Asp Lys Arg Leu Asp Ala Gln Gly Arg Cys 65 70 75 80

Ala Pro Met Lys Ser Ile Ser Ser Ser Leu Lys Glu Thr Met Asn Pro 85 90 95

His Asp Ile Val Gln Asp Ala Ile His Asn Phe Ser Pro Ala Tyr Gln 100 105 110

Gln Tyr Thr Gln Gln Ser Thr Leu Glu Pro Gly Pro Thr Trp Arg Gly 115 120 125

Gly Ala His Gly Leu Ser Arg Ser His Ser Leu Ser Gly Ala Arg Asp 130 135 140

Asn Glu Lys Thr Leu Leu Leu Ser Ser Asp Asp Glu Phe 145 150 155

<210> 173

<211> 71

<212> PRT

<213> Homo sapiens

<400> 173

Glu Ser Ala Pro Pro Trp Leu Pro Ile Cys Pro Thr Arg Ser Leu Gly
1 5 10 15

Leu Leu Val Gln Leu Leu Ala Leu Ala Gly Ser Cys Ser Ala Gly Pro 20 25 30

Arg Ala Leu Gly Gln Ala Ser Gly Val Val Arg Thr Thr Lys Pro Leu
35 40 45

Leu Ser Pro Ser Thr Pro Leu Asp Leu Gly Pro Pro Glu Pro Pro Ala 50 55 60

Gly Trp Ala Tyr Thr Ser Ser 65 70

<210> 174

<211> 90

<212> PRT

<213> Homo sapiens

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<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 174
Met Gly Ile Trp Val Leu Ala Leu Trp Val Gly Cys Leu Cys Phe Leu
                  5
                                      10
                                                          15
Tyr Arg Pro Ala Cys Gly Thr Asp Gln Cys Gly Ala Trp Ser Lys Val
Arg Arg Thr Ala Met Ala Xaa Ala Thr Gly Ala Ala Xaa Ser Thr Pro
Xaa Ala Xaa Trp Leu Leu Ser Val Ser His Thr Thr Leu Xaa Leu Xaa
Ala Met Glu Lys Gly Glu Ala Gln Arg Ala Asn Cys Gln His Ser Cys
 65
Val Asp Thr Leu Gly Pro Gln His Gln Pro
                 85
<210> 175
<211> 155
<212> PRT
<213> Homo sapiens
<400> 175
Met Glu Asn Phe Ile Lys Val Gln Leu Arg Asp Gly Asp Ser Asn Cys
```

Glu Trp Ser Val Leu Tyr Val Ile Ile Ala Thr Phe Val Ile Val Val 20 25 30

Ala Leu Gly Ile Leu Ser Trp Thr Val Ile Cys Cys Cys Lys Arg Gln 35 40 45

Lys Gly Lys Pro Lys Arg Lys Ser Lys Tyr Lys Ile Leu Asp Ala Thr 50 55 60

Asp Gln Glu Ser Leu Glu Leu Lys Pro Thr Ser Arg Ala Gly Lys Glu 65 70 75 80

Lys Arg Met Ser Leu Ser Gly Leu Asn Gln Ser Ser Trp Ile Leu Glu 85 90 95

Met Lys Asn Gln Glu Thr Pro Gly Ile Lys Gln Lys Gly Leu Leu
100 105 110

Leu Ser Ser Ser Leu Met His Ser Glu Ser Glu Leu Asp Ser Asp Asp 115 120 125

Ala Ile Phe Thr Trp Pro Asp Arg Glu Lys Gly Lys Leu Leu His Gly
130 135 140

Gln Asn Gly Ser Val Pro Asn Gly Arg Pro Leu 145 150 155

<210> 176

<211> 102

<212> PRT

<213> Homo sapiens

<400> 176

Met Asn Pro Ala Val Arg Gln Arg Cys Leu Leu Phe Cys Phe Gln Gln 1 5 10 15

Lys Leu Ile Leu Ser His Phe Phe Leu Leu Gln Val Pro Gln Trp Cys 20 25 30

Ala Glu Tyr Cys Leu Ser Ile His Tyr Gln His Gly Gly Val Ile Cys $35 \hspace{1cm} 40 \hspace{1cm} 45$

Thr Gln Val His Lys Gln Thr Val Val Gln Leu Ala Leu Arg Val Ala 50 55 60

Asp Glu Met Asp Val Asn Ile Gly His Glu Val Gly Tyr Val Ile Pro 65 70 75 80

Phe Glu Asn Cys Cys Thr Asn Glu Thr Ile Leu Arg Leu Val Cys Gly
85 90 95

Val Gln Ser Ala Pro Cys 100

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<211> 58
<212> PRT
<213> Homo sapiens
<400> 177
<210> 178
<211> 45
<212> PRT
<213> Homo sapiens
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Met Val Ser Phe Gly Phe Trp Phe Leu Cys Leu Phe Phe Gly Val Trp Lys Asn Met His Phe Tyr Arg Ala Arg Lys Leu Val Ser Arg Lys Gly Ser Pro Glu Lys Ala Ala Asp Gly Pro Cys Pro Cys Trp Val Phe Leu Phe Phe Gly Thr Val Arg Gly Asn Gly Phe <400> 178 Met Val Gln Trp Lys Asn Trp Pro Glu Ser Leu Glu Val Trp Val Leu

Val Leu Ala Val Pro Leu Thr His Cys Asp Leu Gly Ile Leu Cys Cys

Glu Asp Ile Ser Gln Val Leu His Val Ser Gln Gln Ile 35 40

<210> 179 <211> 98 <212> PRT <213> Homo sapiens

Met Val His Ile Asn Arg Ala Leu Lys Leu Ile Ile Arg Leu Phe Leu 5

Val Glu Asp Leu Val Asp Ser Leu Lys Leu Ala Val Phe Met Trp Leu

Met Thr Tyr Val Gly Ala Val Phe Asn Gly Ile Thr Leu Leu Ile Leu 35

Ala Glu Leu Leu Ile Phe Ser Val Pro Ile Val Tyr Glu Lys Tyr Lys

Thr Gln Ile Asp His Tyr Val Gly Ile Ala Arg Asp Gln Thr Lys Ser

Ile Val Glu Lys Ile Gln Ala Lys Leu Pro Gly Ile Ala Lys Lys

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Ala Glu
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<210> 180
<211> 392
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (251)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 180
Met Ala Pro Trp Pro Pro Lys Gly Leu Val Pro Ala Val Leu Trp Gly
                  5
Leu Ser Leu Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser
Pro Pro Pro Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr
Cys Arg Gly Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile
Arg Asp Asn Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu
Ser Lys Tyr Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly
Val Cys Ser Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser
Glu Glu Leu Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro
                            120
Asp Leu Phe Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro
Ala Gly Thr Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu
Arg Pro Cys Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr Arg Gly
Gly Ser Gly His Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys
Gly Gln Cys Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His
                            200
Leu Val Cys Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro
```

Glu Glu Ser Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His

225	230	235	240
	sp Cys Ala Lys	Ala Cys Xaa Gly Cys	Met Gly Ala
	15	250	255
Gly Pro Gly Arg C	vs Lys Lys Cys	Ser Pro Gly Tyr Gln 265	Gln Val Gly 270
Ser Lys Cys Leu A	p Val Asp Glu	Cys Glu Thr Glu Val	
275	280	285	
Glu Asn Lys Gln C	rs Glu Asn Thr	Glu Gly Gly Tyr Arg	Cys Ile Cys
290	295	300	
Ala Glu Gly Tyr L	vs Gln Met Glu	Gly Ile Cys Val Lys	Glu Gln Ile
305	310	315	320
	y Phe Phe Ser	Glu Met Thr Glu Asp 330	Glu Leu Val 335
Val Leu Gln Gln M	et Phe Phe Gly	Ile Ile Ile Cys Ala	Leu Ala Thr
340		345	350
Leu Ala Ala Lys G 355	y Asp Leu Val 360	Phe Thr Ala Ile Phe 365	_
Val Ala Ala Met T	or Gly Tyr Trp	Leu Ser Glu Arg Ser	Asp Arg Val
370	375	380	
Leu Glu Gly Phe I 385	e Lys Gly Arg 390		
<210> 181 <211> 434 <212> PRT <213> Homo sapien	3		
<400> 181			
	ly Leu Val Pro	Ala Val Leu Trp Gly	Leu Ser Leu
	5	10	15
Phe Leu Asn Leu P	ro Gly Pro Ile	Trp Leu Gln Pro Ser	Pro Pro Pro
20		25	30
Gln Ser Ser Pro P 35	o Pro Gln Pro	His Pro Cys His Thr 45	
Leu Val Asp Ser P 50	ne Asn Lys Gly 55	Leu Glu Arg Thr Ile	Arg Asp Asn
Phe Gly Gly Gly A	on Thr Ala Trp	Glu Glu Glu Asn Leu	Ser Lys Tyr
	70	75	80
Lys Asp Ser Glu T	nr Arg Leu Val	Glu Val Leu Glu Gly	Val Cys Ser
	35	90	95

			100					105					110		
Val	Glu	Ser 115	Trp	Trp	Phe	His	Lys 120	Gln	Gln	Glu	Ala	Pro 125	Asp	Leu	Phe
Gln	Trp 130	Leu	Cys	Ser	Asp	Ser 135	Leu	Lys	Leu	Cys	Cys 140	Pro	Ala	Gly	Thr
Phe 145	Gly	Pro	Ser	Cys	Leu 150	Pro	Cys	Pro	Gly	Gly 155	Thr	Glu	Arg	Pro	Cys 160
Gly	Gly	Tyr	Gly	Gln 165	Cys	Glu	Gly	Glu	Gly 170	Thr	Arg	Gly	Gly	Ser 175	Gly
His	Cys	Asp	Cys 180	Gln	Ala	Gly	Tyr	Gly 185	Gly	Glu	Ala	Cys	Gly 190	Gln	Cys
Gly	Leu	Gly 195	Tyr	Phe	Glu	Ala	Glu 200	Arg	Asn	Ala	Ser	His 205	Leu	Val	Сув
Ser	Ala 210	Cys	Phe	Gly	Pro	Cys 215	Ala	Arg	Cys	Ser	Gly 220	Pro	Glu	Glu	Ser
Asn 225	Cys	Leu	Gln	Cys	Lys 230	Lys	Gly	Trp	Ala	Leu 235	His	His	Leu	Lys-	Cys 240
Val	Asp	Ile	Asp	Glu 245	Cys	Gly	Thr	Glu	Gly 250	Ala	Asn	Cys	Gly	Ala 255	Asp
Gln	Phe	Cys	Val 260	Asn	Thr	Glu	Gly	Ser 265	Tyr	Glu	Cys	Arg	Asp 270	Cys	Ala
Lys	Ala	Cys 275	Leu	Gly	Cys	Met	Gly 280	Ala	Gly	Pro	Gly	Arg 285	Cys	Lys	Lys
Cys	Ser 290	Pro	Gly	Tyr	Gln	Gln 295	Val	Gly	Ser	Lys	300	Leu	Asp	Val	Asp
305	_				310			_		315			Cys		320
Thr	Glu	Gly	Gly	Tyr 325	Arg	CAa	Ile	Cys	Ala 330	Glu	Gly	Tyr	Lys	Gln 335	Met
	_		340					345					Pro 350		
Thr	Asp	Leu 355	Thr	Pro	Glu	Thr	Thr 360	Arg	Arg	Trp	Lys	Leu 365	Gly	Ser	His
Pro	His 370	Ser	Thr	Tyr	Val	Lys 375	Met	Lys	Met	Gln	Arg 380	Asp	Glu	Ala	Thr
385				_	390					395			Ser		400
Arg	Gln	Ser	Asp	Arg 405	Gly	Thr	Arg	Leu	Ile 410	His	Val	Ile	Asn	Ala 415	Leu

Pro Pro Thr Cys Pro Pro Gln Lys Lys Lys Lys Lys Lys Lys Lys Gly 420 425 430

Gly Arg

<210> 182

<211> 150

<212> PRT

<213> Homo sapiens

<400> 182

Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val 1 5 10 15

Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr 20 25 30

Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser 35 40 45

Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr Trp 50 55 60

Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val Gln 65 70 75 80

Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val Asn
85 90 95

Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu Asn 100 105 110

Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys
115 120 125

Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro 130 135 140

Ile Ser Ile Met Ile Cys 145 150

<210> 183

<211> 110

<212> PRT

<213> Homo sapiens

<400> 183

His Ala Ser Gly Trp Arg Thr Pro Arg Asp Pro Glu Arg Pro Pro Arg
1 10 15

His Ile Gln Thr Ser Ala Ala Pro Ala Pro Ser Gln Pro Ser Trp Asp 20 25 30

Ser Arg Ala His Pro Thr Gln Arg Arg Asp Pro Gly Pro Pro Gly Pro

Pro Ser Gly Arg Ser Leu Pro Thr Arg Cys Arg Val Pro Pro Ala Leu 65 70 75 80

Ser Arg Pro Gly Ser Pro Pro Pro Gly Pro Arg Gly Gly Pro Ser Gln 85 90 95

Ala Pro Phe Glu Pro Arg Arg Pro Gly Leu Gly Arg Thr
100 105 110

<210> 184

<211> 56

<212> PRT

<213> Homo sapiens

<400> 184

His Ala Ser Gly Trp Arg Thr Pro Arg Asp Pro Glu Arg Pro Pro Arg

1 10 15

His Ile Gln Thr Ser Ala Ala Pro Ala Pro Ser Gln Pro Ser Trp Asp 20 25 30

Ser Arg Ala His Pro Thr Gln Arg Arg Asp Pro Gly Pro Pro Gly Pro 35 40 45

Ser Ala Asp Ser Thr Ala His Phe 50 55

<210> 185

<211> 54

<212> PRT

<213> Homo sapiens

<400> 185

Pro Gly Pro Pro His Thr Ser Gln Pro Ser Gly Arg Ser Leu Pro Thr 1 5 10 15

Arg Cys Arg Val Pro Pro Ala Leu Ser Arg Pro Gly Ser Pro Pro Pro 20 25 30

Gly Pro Arg Gly Gly Pro Ser Gln Ala Pro Phe Glu Pro Arg Arg Arg 35 40 45

Pro Gly Leu Gly Arg Thr 50

<210> 186

<211> 723

<212> PRT

<213> Homo sapiens

<400> 186

His Ala Ser Ala Ser Pro Gly Arg Val Asp Ala Asp Ser Asn Ala Val 10

Ala Ser Gly Pro Arg Thr Pro Ser Gly Pro Thr Arg Gln Glu Arg Leu

Arg Pro Arg Pro Ala Pro Pro Gly Ser Leu Arg Arg Arg Leu Pro

Gly Gln Lys Met Cys Ser Arg Val Pro Leu Leu Leu Pro Leu Leu Leu

Leu Leu Ala Leu Gly Pro Gly Val Gln Gly Cys Pro Ser Gly Cys Gln

Cys Ser Gln Pro Gln Thr Val Phe Cys Thr Ala Arg Gln Gly Thr Thr

Val Pro Arg Asp Val Pro Pro Asp Thr Val Gly Leu Tyr Val Phe Glu

Asn Gly Ile Thr Met Leu Asp Ala Gly Ser Phe Ala Gly Leu Pro Gly

Leu Gln Leu Leu Asp Leu Ser Gln Asn Gln Ile Ala Ser Leu Pro Ser

Gly Val Phe Gln Pro Leu Ala Asn Leu Ser Asn Leu Asp Leu Thr Ala

Asn Arg Leu His Glu Ile Thr Asn Glu Thr Phe Arg Gly Leu Arg Arg

Leu Glu Arg Leu Tyr Leu Gly Lys Asn Arg Ile Arg His Ile Gln Pro 185

Gly Ala Phe Asp Thr Leu Asp Arg Leu Leu Glu Leu Lys Leu Gln Asp 195 200 205

Asn Glu Leu Arg Ala Leu Pro Pro Leu Arg Leu Pro Arg Leu Leu 215

Leu Asp Leu Ser His Asn Ser Leu Leu Ala Leu Glu Pro Gly Ile Leu 225 235 230

Asp Thr Ala Asn Val Glu Ala Leu Arg Leu Ala Gly Leu Gly Leu Gln

Gln Leu Asp Glu Gly Leu Phe Ser Arg Leu Arg Asn Leu His Asp Leu 265

Asp Val Ser Asp Asn Gln Leu Glu Arg Val Pro Pro Val Ile Arg Gly 280

Leu Arg Gly Leu Thr Arg Leu Arg Leu Ala Gly Asn Thr Arg Ile Ala

- Gln Leu Arg Pro Glu Asp Leu Ala Gly Leu Ala Ala Leu Gln Glu Leu 305 310 315 320
- Asp Val Ser Asn Leu Ser Leu Gln Ala Leu Pro Gly Asp Leu Ser Gly 325 330 335
- Leu Phe Pro Arg Leu Arg Leu Leu Ala Ala Ala Arg Asn Pro Phe Asn 340 345 350
- Cys Val Cys Pro Leu Ser Trp Phe Gly Pro Trp Val Arg Glu Ser His 355 360 365
- Val Thr Leu Ala Ser Pro Glu Glu Thr Arg Cys His Phe Pro Pro Lys 370 375 380
- Asn Ala Gly Arg Leu Leu Leu Glu Leu Asp Tyr Ala Asp Phe Gly Cys 385 390 395 400
- Pro Ala Thr Thr Thr Ala Thr Val Pro Thr Thr Arg Pro Val Val
 405 410 415
- Arg Glu Pro Thr Ala Leu Ser Ser Ser Leu Ala Pro Thr Trp Leu Ser 420 425 430
- Pro Thr Ala Pro Ala Thr Glu Ala Pro Ser Pro Pro Ser Thr Ala Pro 435 440 445
- Pro Thr Val Gly Pro Val Pro Gln Pro Gln Asp Cys Pro Pro Ser Thr 450 455 460
- Cys Leu Asn Gly Gly Thr Cys His Leu Gly Thr Arg His His Leu Ala 465 470 475 480
- Cys Leu Cys Pro Glu Gly Phe Thr Gly Leu Tyr Cys Glu Ser Gln Met 485 490 495
- Gly Gln Gly Thr Arg Pro Ser Pro Thr Pro Val Thr Pro Arg Pro Pro 500 505 510
- Arg Ser Leu Thr Leu Gly Ile Glu Pro Val Ser Pro Thr Ser Leu Arg 515 520 525
- Val Gly Leu Gln Arg Tyr Leu Gln Gly Ser Ser Val Gln Leu Arg Ser 530 535 540
- Leu Arg Leu Thr Tyr Arg Asn Leu Ser Gly Pro Asp Lys Arg Leu Val 545 550 555 560
- Thr Leu Arg Leu Pro Ala Ser Leu Ala Glu Tyr Thr Val Thr Gln Leu 565 570 575
- Arg Pro Asn Ala Thr Tyr Ser Val Cys Val Met Pro Leu Gly Pro Gly 580 585 590
- Arg Val Pro Glu Glu Glu Glu Ala Cys Gly Glu Ala His Thr Pro Pro 595 600 605
- Ala Val His Ser Asn His Ala Pro Val Thr Gln Ala Arg Glu Gly Asn

610	615	620			

Leu Pro Leu Leu Ile Ala Pro Ala Leu Ala Ala Val Leu Leu Ala Ala 625 630 635 640

Leu Ala Ala Val Gly Ala Ala Tyr Cys Val Arg Arg Gly Arg Ala Met 645 650 655

Ala Ala Ala Gln Asp Lys Gly Gln Val Gly Pro Gly Ala Gly Pro
660 665 670

Leu Glu Leu Glu Gly Val Lys Val Pro Leu Glu Pro Gly Pro Lys Ala 675 680 685

Thr Glu Ala Val Glu Arg Pro Cys Pro Ala Gly Leu Ser Val Lys Cys 690 695 700

His Ser Trp Ala Ser Lys Ala Trp Pro Gln Ser Pro Leu His Ala Lys 705 710 715 720

Pro Tyr Ile

<210> 187

<211> 51

<212> PRT

<213> Homo sapiens

<400> 187

His Ala Ser Gly Arg Leu Gln Thr Gln Arg Glu Gly Gln Gly Val
1 5 10 15

Gly Arg Arg Thr Glu Glu Gly Thr Glu Thr Gln Ser Lys Gly Gly 20 25 30

Lys Glu Glu Thr Leu Val Gly Gly Arg His Ser Gly Glu Arg Gly Gly 35 40 45

Trp Ala Glu 50

<210> 188

<211> 59

<212> PRT

<213> Homo sapiens

<400> 188

Pro Arg Val Arg Ala Glu Ser Glu Gly Thr Tyr Asp Thr Tyr Gln His 1 5 10 15

Val Pro Val Glu Ser Phe Ala Glu Val Leu Leu Arg Thr Gly Lys Leu 20 25 30

Ala Glu Ala Lys Asn Lys Gly Glu Val Phe Pro Thr Thr Glu Val Leu
35 40 45

<400> 192

```
Leu Gln Leu Ala Ser Glu Ala Leu Pro Asn Asp
    50
                         55
<210> 189
<211> 35
<212> PRT
<213> Homo sapiens
<400> 189
Thr Leu Asn His Leu Glu Lys Ser Leu Ala His Leu Glu Thr Leu Ser
His Ser Phe Ile Leu Ser Leu Lys Asn Ser Glu Gln Glu Thr Leu Gln
             20
Lys Tyr Ser
         35
<210> 190
<211> 36
<212> PRT
<213> Homo sapiens
<400> 190
His Leu Tyr Asp Leu Ser Arg Ser Glu Lys Glu Lys Leu His Asp Glu
Ala Val Ala Ile Cys Leu Asp Gly Gln Pro Leu Ala Met Ile Gln Gln
Leu Leu Glu Val
         35
<210> 191
<211> 35
<212> PRT
<213> Homo sapiens
<400> 191
Ala Val Gly Pro Leu Asp Ile Ser Pro Lys Asp Ile Val Gln Ser Ala
Ile Met Lys Ile Ile Ser Ala Leu Ser Gly Gly Ser Ala Asp Leu Gly
Gly Pro Arg
<210> 192
<211> 36
<212> PRT
<213> Homo sapiens
```

```
Asp Pro Leu Lys Val Leu Glu Gly Val Val Ala Ala Val His Ala Ser
Val Asp Lys Gly Glu Glu Leu Val Ser Pro Glu Asp Leu Leu Glu Trp
Leu Arg Pro Phe
         35
<210> 193
<211> 35
<212> PRT
<213> Homo sapiens
<400> 193
Cys Ala Asp Asp Ala Trp Pro Val Arg Pro Arg Ile His Val Leu Gln
Ile Leu Gly Gln Ser Phe His Leu Thr Glu Glu Asp Ser Lys Leu Leu
Val Phe Phe
         35
<210> 194
<211> 37
<212> PRT
<213> Homo sapiens
<400> 194
Arg Thr Glu Ala Ile Leu Lys Ala Ser Trp Pro Gln Arg Gln Val Asp
Ile Ala Asp Ile Glu Asn Glu Glu Asn Arg Tyr Cys Leu Phe Met Glu
Leu Leu Glu Ser Ser
         35
<210> 195
<211> 34
<212> PRT
<213> Homo sapiens
<400> 195
His His Glu Ala Glu Phe Gln His Leu Val Leu Leu Gln Ala Trp
                  5
Pro Pro Met Lys Ser Glu Tyr Val Ile Thr Asn Asn Pro Trp Val Arg
                                 25
```

Leu Ala

```
<210> 196
<211> 36
<212> PRT
<213> Homo sapiens
<400> 196
Thr Val Met Leu Thr Arg Cys Thr Met Glu Asn Lys Glu Gly Leu Gly
                                      10
Asn Glu Val Leu Lys Met Cys Arg Ser Leu Tyr Asn Thr Lys Gln Met
Leu Pro Ala Glu
         35
<210> 197
<211> 35
<212> PRT
<213> Homo sapiens
<400> 197
Gly Val Lys Glu Leu Cys Leu Leu Leu Leu Asn Gln Ser Leu Leu Leu
                                      10
Pro Ser Leu Lys Leu Leu Glu Ser Arg Asp Glu His Leu His Glu
Met Ala Leu
<210> 198
<211> 36
<212> PRT
<213> Homo sapiens
<400> 198
Glu Gln Ile Thr Ala Val Thr Thr Val Asn Asp Ser Asn Cys Asp Gln
Glu Leu Leu Ser Leu Leu Leu Asp Ala Lys Leu Leu Val Lys Cys Val
Ser Thr Pro Phe
         35
<210> 199
<211> 35
<212> PRT
<213> Homo sapiens
Tyr Pro Arg Ile Val Asp His Leu Leu Ala Ser Leu Gln Gln Gly Arg
                                     10
Trp Asp Ala Glu Glu Leu Gly Arg His Leu Arg Glu Ala Gly His Glu
```

25

```
Ala Glu Ala
35
```

<210> 200

<211> 28

<212> PRT

<213> Homo sapiens

<400> 200

Gly Ser Leu Leu Leu Ala Val Arg Gly Thr His Gln Ala Phe Arg Thr 1 5 10 15

Phe Ser Thr Ala Leu Arg Ala Ala Gln His Trp Val 20 25

<210> 201

<211> 38

<212> PRT

<213> Homo sapiens

<400> 201

N

Pro Ser Ser Tyr Thr Ala Thr Met Asn Val Ser Trp Ile Ser Leu Arg

1 10 15

Arg Arg Ser Phe Arg Ala Phe Gly Arg Val Trp Thr Cys Ser Gly Leu 20 25 30

Leu Gln Met Thr Ser Ile 35

<210> 202

<211> 33

<212> PRT

<213> Homo sapiens

<400> 202

Lys Gly Lys Leu Ser Leu Val Trp Gln Arg Leu Asp Gly His Phe Cys

1 10 15

Arg Thr Leu Glu Glu Ser Val Tyr Ser Ile Ala Ile Ser Leu Ala Gln 20 25 30

Arg

<210> 203

<211> 35

<212> PRT

<213> Homo sapiens

<400> 203

Tyr Ser Val Ser Arg Trp Glu Val Phe Met Thr His Leu Glu Phe Leu

```
5
                                     10
                                                          15
Phe Thr Asp Ser Gly Leu Ser Thr Leu Glu Ile Glu Asn Arg Ala Gln
            20
                                25
Asp Leu His
         35
<210> 204
<211> 36
<212> PRT
<213> Homo sapiens
<400> 204
Leu Phe Glu Thr Leu Lys Thr Asp Pro Glu Ala Phe His Gln His Met
Val Lys Tyr Ile Tyr Pro Thr Ile Gly Gly Phe Asp His Glu Arg Leu
Gln Tyr Tyr Phe
         35
<210> 205
<211> 35
<212> PRT
<213> Homo sapiens
<400> 205
Thr Leu Leu Glu Asn Cys Gly Cys Ala Asp Leu Gly Asn Cys Ala Ile
 1
                  5
Lys Pro Glu Thr His Ile Arg Leu Leu Lys Lys Phe Lys Val Val Ala
Ser Gly Leu
         35
<210> 206
<211> 36
<212> PRT
<213> Homo sapiens
<400> 206
Asn Tyr Lys Lys Leu Thr Asp Glu Asn Met Ser Pro Leu Glu Ala Leu
                  5
Glu Pro Val Leu Ser Ser Gln Asn Ile Leu Ser Ile Ser Lys Leu Val
Pro Lys Ile Pro
```

<210> 207

```
<211> 36
<212> PRT
<213> Homo sapiens
<400> 207
Glu Lys Asp Gly Gln Met Leu Ser Pro Ser Ser Leu Tyr Thr Ile Trp
Leu Gln Lys Leu Phe Trp Thr Gly Asp Pro His Leu Ile Lys Gln Val
Pro Gly Ser Ser
        35
<210> 208
<211> 35
<212> PRT
<213> Homo sapiens
<400> 208
Pro Glu Trp Leu His Ala Tyr Asp Val Cys Met Lys Tyr Phe Asp Arg
Leu His Pro Gly Asp Leu Ile Thr Val Val Asp Ala Val Thr Phe Ser
Pro Lys Ala
       35
<210> 209
<211> 244
<212> PRT
<213> Homo sapiens
<400> 209
Met Leu Val Tyr Leu Ile Thr Gly Asp Val Lys Phe Gly Leu Leu Ala
Arg Val Gly Cys Cys Leu Thr Val Pro Thr Glu Arg Cys Phe Phe Ser
Phe Cys Ala Ala Val Lys Lys Pro Ala Pro Ala Pro Pro Lys Pro Gly
Asn Pro Pro Pro Gly His Pro Gly Gly Gln Ser Ser Gly Thr Ser
Gln His Pro Pro Ser Leu Ser Pro Lys Pro Pro Thr Arg Ser Pro Ser
                     70
Pro Pro Thr Gln His Thr Gly Gln Pro Pro Gly Gln Pro Ser Ala Pro
Ser Gln Leu Ser Ala Pro Arg Arg Tyr Ser Ser Ser Leu Ser Pro Ile
                                105
                                                    110
```

Gln Ala Pro Asn His Pro Pro Pro Gln Pro Pro Thr Gln Ala Thr Pro 115 120 125

Leu Met His Thr Lys Pro Asn Ser Gln Gly Pro Pro Asn Pro Met Ala 130 135 140

Leu Pro Ser Glu His Gly Leu Glu Gln Pro Ser His Thr Pro Pro Gln 145 150 155 160

Thr Pro Thr Pro Pro Ser Thr Pro Pro Leu Gly Lys Gln Asn Pro Ser 165 170 175

Leu Pro Ala Pro Gln Thr Leu Ala Gly Gly Asn Pro Glu Thr Ala Gln
180 185 190

Pro His Ala Gly Thr Leu Pro Arg Pro Arg Pro Val Pro Lys Pro Arg 195 . 200 205

Asn Arg Pro Ser Val Pro Pro Pro Gln Pro Pro Gly Val His Ser 210 215 220

Ala Gly Asp Ser Ser Leu Thr Asn Thr Ala Pro Thr Ala Ser Lys Ile 225 230 235 240

Val Thr Asp Val

<210> 210

<211> 36

<212> PRT

<213> Homo sapiens

<400> 210

Pro Thr Arg Pro Arg Arg Arg Ser Pro Ser Pro Thr Gln Cys Gly Ala

1 10 15

Arg Arg Glu Pro Arg Arg Lys Leu Ser Ala Ser Ala Arg Gln Ala Arg
20 25 30

Arg Arg Arg Ala 35

<210> 211

<211> 195

<212> PRT

<213> Homo sapiens

<400> 211

Met Lys Phe Thr Ile Val Phe Ala Gly Leu Leu Gly Val Phe Leu Ala 1 5 10 15

Pro Ala Leu Ala Asn Tyr Asn Ile Asn Val Asn Asp Asp Asn Asn Asn 20 25 30

Ala Gly Ser Gly Gln Gln Ser Val Ser Val Asn Asn Glu His Asn Val
35 40 45

Ala Asn Val Asp Asn Asn Asn Gly Trp Asp Ser Trp Asn Ser Ile Trp 50 55 60

Asp Tyr Gly Asn Gly Phe Ala Ala Thr Arg Leu Phe Gln Lys Lys Thr 65 70 75 80

Cys Ile Val His Lys Met Asn Lys Glu Val Met Pro Ser Ile Gln Ser 85 90 95

Leu Asp Ala Leu Val Lys Glu Lys Lys Leu Gln Gly Lys Gly Pro Gly
100 105 110

Gly Pro Pro Pro Lys Gly Leu Met Tyr Ser Val Asn Pro Asn Lys Val 115 120 125

Asp Asp Leu Ser Lys Phe Gly Lys Asn Ile Ala Asn Met Cys Arg Gly 130 135 140

Ile Pro Thr Tyr Met Ala Glu Glu Met Gln Glu Ala Ser Leu Phe Phe 145 150 155 160

Tyr Ser Gly Thr Cys Tyr Thr Thr Ser Val Leu Trp Ile Val Asp Ile 165 170 175

Ser Phe Cys Gly Asp Thr Gly Gly Glu Leu Asn Asn Phe Leu Lys Pro 180 185 190

Leu Trp Ile 195

<210> 212

<211> 182

<212> PRT

<213> Homo sapiens

<400> 212

Met Lys Phe Thr Ile Val Phe Ala Gly Leu Leu Gly Val Phe Leu Ala
1 5 10 15

Pro Ala Leu Ala Asn Tyr Asn Ile Asn Val Asn Asp Asn Asn Asn 20 25 30

Ala Gly Ser Gly Gln Gln Ser Val Ser Val Asn Asn Glu His Asn Val
35 40 45

Ala Asn Val Asp Asn Asn Asn Gly Trp Asp Ser Trp Asn Ser Ile Trp 50 55 60

Asp Tyr Gly Asn Gly Phe Ala Ala Thr Arg Leu Phe Gln Lys Lys Thr 65 70 75 80

Cys Ile Val His Lys Met Asn Lys Glu Val Met Pro Ser Ile Gln Ser 85 90 95

Leu Asp Ala Leu Val Lys Glu Lys Lys Leu Gln Gly Lys Gly Pro Gly
100 105 110

```
Gly Pro Pro Pro Lys Gly Leu Met Tyr Ser Val Asn Pro Asn Lys Val
115 120 125
```

Asp Asp Leu Ser Lys Phe Gly Lys Asn Ile Ala Asn Met Cys Arg Gly 130 135

Ile Pro Thr Tyr Met Ala Glu Glu Met Gln Glu Ala Ser Leu Phe Phe 145 150 155 160

Tyr Ser Gly Thr Cys Tyr Thr Thr Ser Val Leu Trp Ile Val Asp Ile 165 170 175

Ser Phe Cys Gly Asp Thr 180

<210> 213

<211> 13

<212> PRT

<213> Homo sapiens

<400> 213

Gly Gly Glu Leu Asn Asn Phe Leu Lys Pro Leu Trp Ile 1 5

<210> 214

<211> 171

<212> PRT

<213> Homo sapiens

<400> 214

Phe Ile Phe Ser Val Lys Lys Lys Thr Asp Asp Gly Pro Ser Leu 1 5 10 15

Gly Ala Gln Asp Gln Arg Ser Thr Pro Thr Asn Gln Lys Gly Ser Ile
20 25 30

Ile Pro Asn Asn Ile Arg His Lys Phe Gly Ser Asn Val Val Asp Gln 35 40 45

Leu Val Ser Glu Glu Gln Ala Gln Lys Ala Ile Asp Glu Val Phe Glu
50 55 60

Gly Gln Lys Arg Ala Ser Ser Trp Pro Ser Arg Thr Gln Asn Pro Val 65 70 75 80

Glu Ile Ser Ser Val Phe Ser Asp Tyr Tyr Asp Leu Gly Tyr Asn Met 85 90 95

Arg Ser Asn Leu Phe Arg Gly Ala Ala Glu Glu Thr Lys Ser Leu Met

Lys Ala Ser Tyr Thr Pro Glu Val Ile Glu Lys Ser Val Arg Asp Leu 115 120 125

Glu His Trp His Gly Arg Lys Thr Asp Asp Leu Gly Arg Trp His Gln

<213> Homo sapiens

```
130
                        135
                                             140
Lys Asn Ala Met Asn Leu Asn Leu Gln Lys Ala Leu Glu Glu Lys Tyr
Gly Glu Asn Ser Lys Ser Lys Ser Ser Lys Tyr
                165
<210> 215
<211> 31
<212> PRT
<213> Homo sapiens
<400> 215
Gly Ser Ile Ile Pro Asn Asn Ile Arg His Lys Phe Gly Ser Asn Val
Val Asp Gln Leu Val Ser Glu Glu Gln Ala Gln Lys Ala Ile Asp
<210> 216
<211> 33
<212> PRT
<213> Homo sapiens
<400> 216
Glu Val Phe Glu Gly Gln Lys Arg Ala Ser Ser Trp Pro Ser Arg Thr
Gln Asn Pro Val Glu Ile Ser Ser Val Phe Ser Asp Tyr Tyr Asp Leu
                                 25
Gly
<210> 217
<211> 40
<212> PRT
<213> Homo sapiens
<400> 217
Tyr Asn Met Arg Ser Asn Leu Phe Arg Gly Ala Ala Glu Glu Thr Lys
Ser Leu Met Lys Ala Ser Tyr Thr Pro Glu Val Ile Glu Lys Ser Val
                                 25
Arg Asp Leu Glu His Trp His Gly
<210> 218
<211> 38
<212> PRT
```

```
<400> 218
```

Arg Lys Thr Asp Asp Leu Gly Arg Trp His Gln Lys Asn Ala Met Asn 1 5 10 15

Leu Asn Leu Gln Lys Ala Leu Glu Glu Lys Tyr Gly Glu Asn Ser Lys
20 25 30

Ser Lys Ser Ser Lys Tyr 35

<210> 219

<211> 39

<212> PRT

<213> Homo sapiens

<400> 219

His Glu Ser Ala Arg Gly Arg Trp Glu Gly Gly Gly Arg Arg Ala Cys

1 10 15

Arg Gly Ser Leu Gly Leu Ala Arg Ala Gln Gly Ala Glu Arg Val Thr 20 25 30

Ser Ser Glu Gln Arg Pro Ala

<210> 220

<211> 160

<212> PRT

<213> Homo sapiens

<400> 220

Ser Gln Val Pro Lys Arg Thr Asp Ser Ser Glu Pro Cys Gly Leu Ser 1 5 10 15

Asp Leu Cys Arg Ser Leu Met Thr Lys Pro Gly Cys Ser Gly Tyr Cys
20 25 30

Leu Ser His Gln Leu Leu Phe Phe Leu Trp Ala Arg Met Arg Gly Cys $35 \hspace{1cm} 40 \hspace{1cm} 45$

Thr Gln Gly Pro Leu Gln Gln Ser Gln Asp Tyr Ile Thr Phe Cys Ala
50 55 60

Asn Met Met Asp Leu Asn Arg Arg Ala Glu Ala Ile Gly Tyr Ala Tyr 65 70 75 80

Pro Thr Arg Asp Ile Phe Met Glu Asn Ile Met Phe Cys Gly Met Gly 85 90 95

Gly Phe Ser Asp Phe Tyr Lys Leu Arg Trp Leu Glu Ala Ile Leu Ser 100 105 110

Trp Gln Lys Gln Glu Gly Cys Phe Gly Glu Pro Asp Ala Glu Asp 115 120 125

```
Glu Glu Leu Ser Lys Ala Ile Gln Tyr Gln Gln His Phe Ser Arg Arg 130 135 140
```

Val Lys Arg Arg Glu Lys Gln Phe Pro Glu Tyr Trp Lys Trp Cys Pro 145 150 155 160

<210> 221

<211> 39

<212> PRT

<213> Homo sapiens

<400> 221

Ser Gln Val Pro Lys Arg Thr Asp Ser Ser Glu Pro Cys Gly Leu Ser 1 5 10 15

Asp Leu Cys Arg Ser Leu Met Thr Lys Pro Gly Cys Ser Gly Tyr Cys 20 25 30

Leu Ser His Gln Leu Leu Phe 35

<210> 222

<211> 36

<212> PRT

<213> Homo sapiens

<400> 222

Phe Leu Trp Ala Arg Met Arg Gly Cys Thr Gln Gly Pro Leu Gln Gln 1 5 10 15

Ser Gln Asp Tyr Ile Thr Phe Cys Ala Asn Met Met Asp Leu Asn Arg

Arg Ala Glu Ala 35

<210> 223

<211> 44

<212> PRT

<213> Homo sapiens

<400> 223

Ile Gly Tyr Ala Tyr Pro Thr Arg Asp Ile Phe Met Glu Asn Ile Met
1 5 10 15

Phe Cys Gly Met Gly Gly Phe Ser Asp Phe Tyr Lys Leu Arg Trp Leu

Glu Ala Ile Leu Ser Trp Gln Lys Gln Gln Glu Gly

<400> 226

```
<210> 224
<211> 41
<212> PRT
<213> Homo sapiens
<400> 224
Cys Phe Gly Glu Pro Asp Ala Glu Asp Glu Glu Leu Ser Lys Ala Ile
Gln Tyr Gln Gln His Phe Ser Arg Arg Val Lys Arg Arg Glu Lys Gln
              20
Phe Pro Glu Tyr Trp Lys Trp Cys Pro
         35
<210> 225
<211> 138
<212> PRT
<213> Homo sapiens
<400> 225
Met Thr Lys Pro Gly Cys Ser Gly Tyr Cys Leu Ser His Gln Leu Leu
Phe Phe Leu Trp Ala Arg Met Arg Gly Cys Thr Gln Gly Pro Leu Gln
Gln Ser Gln Asp Tyr Ile Thr Phe Cys Ala Asn Met Met Asp Leu Asn
Arg Arg Ala Glu Ala Ile Gly Tyr Ala Tyr Pro Thr Arg Asp Ile Phe
Met Glu Asn Ile Met Phe Cys Gly Met Gly Gly Phe Ser Asp Phe Tyr
Lys Leu Arg Trp Leu Glu Ala Ile Leu Ser Trp Gln Lys Gln Glu Glu
Gly Cys Phe Gly Glu Pro Asp Ala Glu Asp Glu Glu Leu Ser Lys Ala
Ile Gln Tyr Gln Gln His Phe Ser Arg Arg Val Lys Arg Arg Glu Lys
Gln Phe Pro Glu Tyr Trp Lys Trp Cys Pro
    130
<210> 226
<211> 92
<212> PRT
<213> Homo sapiens
```

Phe Cys Ala Asn Met Met Asp Leu Asn Arg Arg Ala Glu Ala Ile Gly

Tyr Ala Tyr Pro Thr Arg Asp Ile Phe Met Glu Asn Ile Met Phe Cys 20 25 30

Gly Met Gly Gly Phe Ser Asp Phe Tyr Lys Leu Arg Trp Leu Glu Ala 35 40 45

Ile Leu Ser Trp Gln Lys Gln Gln Glu Gly Cys Phe Gly Glu Pro Asp
50 60

Ala Glu Asp Glu Glu Leu Ser Lys Ala Ile Gln Tyr Gln Gln His Phe 65 70 75 80

Ser Arg Arg Val Lys Arg Arg Glu Lys Gln Phe Pro 85 90

<210> 227

<211> 119

<212> PRT

<213> Homo sapiens

<400> 227

Met Ala Ser Leu Gly Leu Leu Leu Leu Leu Leu Leu Thr Ala Leu Pro 1 5 10 15

Pro Leu Trp Ser Ser Ser Leu Pro Gly Leu Asp Thr Ala Glu Ser Lys 20 25 30

Ala Thr Ile Ala Asp Leu Ile Leu Ser Ala Leu Glu Arg Ala Thr Val 35 40 45

Phe Leu Glu Gln Arg Leu Pro Glu Ile Asn Leu Asp Gly Met Val Gly 50 55 60

Val Arg Val Leu Glu Glu Leu Lys Ser Val Arg Glu Lys Trp Ala 65 70 75 . 80

Gln Glu Pro Leu Gln Pro Leu Ser Leu Arg Val Gly Met Leu Gly 85 90 95

Glu Lys Leu Glu Ala Ala Ile Gln Arg Ser Leu His Tyr Leu Lys Leu 100 105 110

Ser Asp Pro Lys Tyr Leu Arg 115

<210> 228

<211> 175

<212> PRT

<213> Homo sapiens

<400> 228

His Glu Ser Ala Arg Gly Arg Trp Glu Gly Gly Gly Arg Arg Ala Cys
1 5 10 15

Arg Gly Ser Leu Gly Leu Ala Arg Ala Gln Gly Ala Glu Arg Val Thr

Ser Ser Glu Gln Arg Pro Ala Met Ala Ser Leu Gly Leu Leu Leu Leu 35 40 45

Leu Leu Thr Ala Leu Pro Pro Leu Trp Ser Ser Ser Leu Pro Gly 50 55 60

Leu Asp Thr Ala Glu Ser Lys Ala Thr Ile Ala Asp Leu Ile Leu Ser 65 70 75 80

Ala Leu Glu Arg Ala Thr Val Phe Leu Glu Gln Arg Leu Pro Glu Ile 85 90 95

Asn Leu Asp Gly Met Val Gly Val Arg Val Leu Glu Glu Gln Leu Lys
100 105 110

Ser Val Arg Glu Lys Trp Ala Gln Glu Pro Leu Gln Pro Leu Ser 115 120 125

Leu Arg Val Gly Met Leu Gly Glu Lys Leu Glu Ala Ala Ile Gln Arg 130 135 140

Ser Leu His Tyr Leu Lys Leu Ser Asp Pro Lys Tyr Leu Arg Gly Arg 145 150 155 160

Thr Ala Ala Ser Pro Ala Ala Ser Gln Thr Ser Ala Gly Ala Ser 165 170 175

<210> 229

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 229

Lys Ser Val Gly Arg Ser Ser Pro Thr Arg Arg Tyr Arg Ala Ala Val 1 5 10 15

Gly Glu Thr Pro Ala Gly Ala Gln Xaa Gln Leu Arg Gly Arg Glu Gly
20 25 30

Arg Trp Arg Arg Leu Gly Gln Pro Phe Pro Arg Gly Ser Thr Ala Leu $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$

Arg

<210> 230

<211> 55

<212> PRT

<400> 230

Ile Phe Leu Phe Tyr Leu Pro Pro Ser Pro Pro Ser Arg Leu Leu Val 1 5 10 15

Pro Gly Tyr Trp Cys Leu Ala Ser Trp Gln Gly Pro Gly Thr Trp Thr
20 25 30

Ile Ser His Thr Thr Pro Arg Gly Gly Ile Phe Phe Tyr Phe Pro Tyr 35 40 45

Glu Lys Gln Ile Phe Leu Arg
50 55

<210> 231

<211> 479

<212> PRT

<213> Homo sapiens

<400> 231

Met Val Leu Leu His Trp Cys Leu Leu Trp Leu Leu Phe Pro Leu Ser 1 5 10 15

Ser Arg Thr Gln Lys Leu Pro Thr Arg Asp Glu Glu Leu Phe Gln Met 20 25 30

Gln Ile Arg Asp Lys Ala Phe Phe His Asp Ser Ser Val Ile Pro Asp 35 40 45

Gly Ala Glu Ile Ser Ser Tyr Leu Phe Arg Asp Thr Pro Lys Arg Tyr
50 55 60

Phe Phe Val Val Glu Glu Asp Asn Thr Pro Leu Ser Val Thr Val Thr 65 70 75 80

Pro Cys Asp Ala Pro Leu Glu Trp Lys Leu Ser Leu Gln Glu Leu Pro 85 90 95

Glu Asp Arg Ser Gly Glu Gly Ser Gly Asp Leu Glu Pro Leu Glu Gln
100 105 110

Gln Lys Gln Gln Ile Ile Asn Glu Glu Gly Thr Glu Leu Phe Ser Tyr 115 120 125

Lys Gly Asn Asp Val Glu Tyr Phe Ile Ser Ser Ser Pro Ser Gly 130 135

Leu Tyr Gln Leu Asp Leu Leu Ser Thr Glu Lys Asp Thr His Phe Lys 145 150 155 160

Val Tyr Ala Thr Thr Pro Glu Ser Asp Gln Pro Tyr Pro Glu Leu 165 170 175

Pro Tyr Asp Pro Arg Val Asp Val Thr Ser Leu Gly Arg Thr Thr Val

Thr Leu Ala Trp Lys Pro Ser Pro Thr Ala Ser Leu Leu Lys Gln Pro

		195					200					205			
Ile	Gln 210	Tyr	Cys	Val	Val	Ile 215	Asn	Lys	Glu	His	Asn 220	Phe	Lys	Ser	Let
Cys 225	Ala	Val	Glu	Ala	Lys 230	Leu	Ser	Ala	Asp	Asp 235	Ala	Phe	Met	Met	Ala 240
Pro	Lys	Pro	Gly	Leu 245	Asp	Phe	Ser	Pro	Phe 250	Asp	Phe	Ala	His	Phe 255	Gly
Phe	Pro	Ser	Asp 260	Asn	Ser	Gly	Lys	Glu 265	Arg	Ser	Phe	Gln	Ala 270	Lys	Pro
Ser	Pro	Lys 275	Leu	Gly	Arg	His	Val 280	Tyr	Ser	Arg	Pro	Lys 285	Val	Asp	Ile
Gln	Lys 290	Ile	Cys	Ile	Gly	Asn 295	Lys	Asn	Ile	Phe	Thr 300	Val	Ser	Asp	Leu
Lys 305	Pro	Asp	Thr	Gln	Tyr 310	Tyr	Phe	Asp	Val	Phe 315	Val	Val	Asn	Ile	Asr 320
Ser	Asn	Met	Ser	Thr 325	Ala	Tyr	Val	Gly	Thr 330	Phe	Ala	Arg	Thr	Lys 335	Glu
Glu	Ala	Lys	Gln 340	Lys	Thr	Val	Glu	Leu 345	Lys	Asp	Gly	Lys	Ile 350	Thr	Asp
Val	Phe	Val 355	Lys	Arg	Lys	Gly	Ala 360	Lys	Phe	Leu	Arg	Phe 365	Ala	Pro	Val
Ser	Ser 370	His	Gln	Lys	Val	Thr 375	Phe	Phe	Ile	His	Ser 380	Cys	Leu	Asp	Ala
Val 385	Gln	Ile	Gln	Val	Arg 390	Arg	Asp	Gly	Lys	Leu 395	Leu	Leu	Ser	Gln	Asr 400
Val	Glu	Gly	Ile	Gln 405	Gln	Phe	Gln	Leu	Arg 410	Gly	Lys	Pro	Lys	Ala 415	Lys
Tyr	Leu	Val	Arg 420	Leu	Lys	Gly	Asn	Lys 425	Lys	Gly	Ala	Ser	Met 430	Leu	Lys
Ile	Leu	Ala 435	Thr	Thr	Arg	Pro	Thr 440	Lys	Gln	Ser	Phe	Pro 445	Ser	Leu	Pro
Glu	Asp 450	Thr	Arg	Ile	Lys	Ala 455	Phe	Asp	Lys	Leu	Arg 460	Thr	Cys	Ser	Ser
Ala 465	Thr	Val	Ala	Trp	Leu 470	Gly	Thr	Gln	Glu	Arg 475	Asn	Lys	Phe	Cys	

<210> 232 <211> 62 <212> PRT

<213> Homo sapiens

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<220>
<221> SITE
<222> (1)
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 232

Xaa Arg Gly Met Val Phe Gly Gly Val Val Pro Tyr Val Pro Gln Tyr

Arg Asp Ile Arg Arg Thr Gln Asn Ala Asp Gly Phe Ser Thr Tyr Val

Cys Leu Val Leu Leu Val Ala Asn Ile Leu Arg Ile Leu Phe Trp Phe 40

Gly Arg Arg Phe Glu Ser Pro Leu Leu Trp Gln Ser Ala Ile 55

<210> 233 <211> 229 <212> PRT <213> Homo sapiens

<400> 233

Met Val Phe Gly Gly Val Val Pro Tyr Val Pro Gln Tyr Arg Asp Ile

Arg Arg Thr Gln Asn Ala Asp Gly Phe Ser Thr Tyr Val Cys Leu Val

Leu Leu Val Ala Asn Ile Leu Arg Ile Leu Phe Trp Phe Gly Arg Arg

Phe Glu Ser Pro Leu Leu Trp Gln Ser Ala Ile Met Ile Leu Thr Met 55

Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg Val Ala Asn Glu Leu

Asn Ala Arg Arg Ser Phe Thr Asp Phe Asp Pro His His Phe Trp

Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys Val Leu Ala Phe Thr

Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile Asp Ser Ala Leu Phe

Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr Glu Ala Met Leu Gly

Val Pro Gln Leu Tyr Arg Asn His Arg His Gln Ser Thr Glu Gly Met 155

Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly Asp Ala Phe Lys Thr 170

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Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln Phe Ser Val Cys Gly
                                 185
 Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu Gly Gln Ala Tyr Ala
                             200
 Phe Ala Arg His Pro Gln Lys Pro Ala Pro His Ala Val His Pro Thr
Gly Thr Lys Ala Leu
 225
<210> 234
<211> 28
<212> PRT
<213> Homo sapiens
<400> 234
Met Val Phe Gly Gly Val Val Pro Tyr Val Pro Gln Tyr Arg Asp Ile
Arg Arg Thr Gln Asn Ala Asp Gly Phe Ser Thr Tyr
<210> 235
<211> 12
<212> PRT
<213> Homo sapiens
<400> 235
Gly Arg Arg Phe Glu Ser Pro Leu Leu Trp Gln Ser
  1
                  5
<210> 236
<211> 44
<212> PRT
<213> Homo sapiens
<400> 236
Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln Ser Thr Glu Gly
                  5
Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly Asp Ala Phe Lys
Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln
<210> 237
<211> 25
<212> PRT
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<400> 237
Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His Ala
Val His Pro Thr Gly Thr Lys Ala Leu
             20
<210> 238
<211> 32
<212> PRT
<213> Homo sapiens
<400> 238
Arq Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe
Asp Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln
                                 25
<210> 239
<211> 383
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 239
Arg Thr Gly Trp Leu Gly Pro Pro Gly Ser Pro Pro Pro Pro Pro His
Val Arg Gly Met Pro Gly Cys Pro Cys Pro Gly Cys Gly Met Ala Gly
Pro Arg Leu Leu Phe Leu Xaa Ala Leu Ala Leu Glu Leu Leu Gly Arg
                             40
Ala Gly Gly Ser Gln Pro Ala Leu Arg Ser Arg Gly Thr Ala Thr Ala
Cys Arg Leu Asp Asn Lys Glu Ser Glu Ser Trp Gly Ala Leu Leu Ser
Gly Glu Arg Leu Asp Thr Trp Ile Cys Ser Leu Leu Gly Ser Leu Met
Val Gly Leu Ser Gly Val Phe Pro Leu Leu Val Ile Pro Leu Glu Met
```

Gly Thr Met Leu Arg Ser Glu Ala Gly Ala Trp Arg Leu Lys Gln Leu 115 120 125 Leu Ser Phe Ala Leu Gly Gly Leu Leu Gly Asn Val Phe Leu His Leu 130 135 140

Leu Pro Glu Ala Trp Ala Tyr Thr Cys Ser Ala Ser Pro Gly Glu 145 150 155 160

Gly Gln Ser Leu Gln Gln Gln Gln Leu Gly Leu Trp Val Ile Ala 165 170 175

Gly Ile Leu Thr Phe Leu Ala Leu Glu Lys Met Phe Leu Asp Ser Lys 180 185 190

Glu Glu Gly Thr Ser Gln Ala Pro Asn Lys Asp Pro Thr Ala Ala Ala 195 200 205

Ala Ala Leu Asn Gly Gly His Cys Leu Ala Gln Pro Ala Ala Glu Pro 210 215 220

Gly Leu Gly Ala Val Val Arg Ser Ile Lys Val Ser Gly Tyr Leu Asn 225 230 235 240

Leu Leu Ala Asn Thr Ile Asp Asn Phe Thr His Gly Leu Ala Val Ala 245 250 255

Ala Ser Phe Leu Val Ser Lys Lys Ile Gly Leu Leu Thr Thr Met Ala 260 265 270

Ile Leu Leu His Glu Ile Pro His Glu Val Gly Asp Phe Ala Ile Leu 275 280 285

Leu Arg Ala Gly Phe Asp Arg Trp Ser Ala Ala Lys Leu Gln Leu Ser 290 295 300

Thr Ala Leu Gly Gly Leu Leu Gly Ala Gly Phe Ala Ile Cys Thr Gln 305 310 315 320

Ser Pro Lys Gly Val Glu Glu Thr Ala Ala Trp Val Leu Pro Phe Thr 325 330 335

Ser Gly Gly Phe Leu Tyr Ile Ala Leu Val Asn Val Leu Pro Asp Leu 340 345 350

Leu Glu Glu Glu Asp Pro Trp Arg Ser Leu Gln Gln Leu Leu Leu 355 360 365

Cys Ala Gly Ile Val Val Met Val Leu Phe Ser Leu Phe Val Asp 370 375 380

<210> 240

<211> 24

<212> PRT

<213> Homo sapiens

<400> 240

Arg Val Arg Lys Trp Glu Arg Ser Gln Pro Arg Leu Leu Tyr Thr Gly

1 5 10 15

<400> 243

Lys Leu Ser Gly Pro Gln Ala Arg 20 <210> 241 <211> 97 <212> PRT <213> Homo sapiens <400> 241 Ser Pro Ala Trp Ala Gln Leu Pro Gln Ser His Pro Leu Pro Thr Ala Ser Gly Leu Lys Asn Ile Pro Gly Ile Arg Gly Ala Leu Thr Thr Arg Pro Ser Glu Ser Pro Pro Ala Trp Asn Leu Ala Ile Ser Asn Leu Leu 40 Pro Ser Ala Ser Trp Ile Lys Leu Glu Thr Ala Gly Thr Pro Gly Met Ser Leu Pro Ile Leu Pro Cys Leu Cys Ser Phe Leu Asp Leu Thr Tyr Tyr Phe Phe Cys Phe Cys Phe His Pro Ser Cys Leu Ser Cys Pro Glu Gly <210> 242 <211> 36 <212> PRT <213> Homo sapiens <400> 242 Arg Pro Ser Glu Ser Pro Pro Ala Trp Asn Leu Ala Ile Ser Asn Leu 10 Leu Pro Ser Ala Ser Trp Ile Lys Leu Glu Thr Ala Gly Thr Pro Gly Met Ser Leu Pro 35 <210> 243 <211> 30 <212> PRT <213> Homo sapiens

Ile Leu Pro Cys Leu Cys Ser Phe Leu Asp Leu Thr Tyr Tyr Phe Phe

Cys Phe Cys Phe His Pro Ser Cys Leu Ser Cys Pro Glu Gly
20 25 30

<210> 244

<211> 203

<212> PRT

<213> Homo sapiens

<400> 244

Met Gly Arg Asp Ile Pro Gly Val Pro Ala Val Ser Ser Leu Ile Gln
1 5 10 15

Glu Ala Leu Gly Arg Arg Leu Leu Met Ala Arg Phe Gln Ala Gly Gly
20 25 30

Asp Ser Glu Gly Arg Val Val Asn Ala Pro Leu Ile Pro Gly Ile Phe 35 40 45

Phe Arg Pro Glu Ala Val Gly Arg Gly Trp Leu Cys Gly Ser Trp Ala 50 55 60

Gln Ala Gly Leu Gln Asn His Pro Leu Trp Gly Asp Asp Gly Gln 65 70 75 80

Phe Gln Gly Pro Pro Ala Ile His Trp Ala Val Trp Leu Arg Leu Ser 85 90 95

Ala Val Ala Thr Glu Ala Leu Ser Gln Ala Thr Asp Ala Lys Asp Gly
100 105 110

Gln Asp Asp Gln Glu Asp Asp Glu Asp Pro His Gly Ala Arg Glu
115 120 125

Glu Leu Val Leu Leu Ala Ala Ala Val Thr Thr Ala Phe Glu Ser Phe 130 '135 140

Gly Ala Gly Lys Asp Glu Thr Thr Phe Gly Cys Asn Leu Leu Gly Ala 145 150 155 . 160

Ser Gln Gln Ala Glu Gln Gln Gly Gly Arg Glu Ala Gly Asp Pro Ser 165 170 175

Leu Gly His Pro Gly Leu Gly Ala Thr Glu Leu Ser Cys Val Glu Lys 180 185 190

Ala Gly Leu Arg Pro Leu Pro Leu Pro Asp Ala 195 200

<210> 245

<211> 13

<212> PRT

<213> Homo sapiens

<400> 245

Ala Arg Ala Ala Arg Gly Lys Ile Glu Ser Asn Leu Ile

<210> 249 <211> 284

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<210> 246
<211> 10
<212> PRT
<213> Homo sapiens
<400> 246
Gly Pro Gln Val Asp Trp Gln Arg Pro Leu
<210> 247
<211> 77
<212> PRT
<213> Homo sapiens
<400> 247
His Met Leu Trp Asn Arg Arg Lys Leu Arg Cys Cys Phe His Lys Phe
Val Leu Ser Leu Ala Leu Gly Pro Ser Phe Leu Phe Trp Lys Asn Leu
Ser Glu Lys Arg Asp Leu Ser Ser Val Cys Ser Ala Phe Leu Tyr Lys
Thr Arg Asn Gly Val Asn Ser Arg Asp Met Glu Val Ile Thr Pro Asp
 · 50
Ser Leu Cys Trp Leu Leu Arg Phe Ser Gln Gly Glu Val
<210> 248
<211> 76
<212> PRT
<213> Homo sapiens
<400> 248
Met Leu Leu Gln Ser Leu Phe Phe Pro Met Ser Trp Gly Ser Gly
Gly Gly Lys Gly Arg Asp Asp Leu Pro Arg Glu Lys Pro Thr Thr
Cys Pro Val Phe Asp Arg Leu Phe Asp Ile Phe Ala Lys Ile Pro Leu
Val Glu Ser Gln Ala Ser Cys Ala Arg Ile Gly Ile Ala Ala Ser His
Trp Arg Leu Asp Cys Ser Val Asp Gly Met Gln Ala
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<212> PRT
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<213> Homo sapiens

<220>

<221> SITE

<222> (187)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 249

Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly Ala Val Val 1 5 10 15

Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro Pro Leu Asp 20 25 30

Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His Ser Ile Lys
35 40 45

Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile Pro Pro Leu 50 55 60

Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly Val Val Gly
65 70 75 80

Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Arg Ile Ser Ala 85 90 95

Leu Lys Val Gly Ala Asp Leu Ser His Val Phe Cys Ala Ser Ala Ala 100 105 110

Ala Pro Val Ile Lys Ala Tyr Ser Pro Glu Leu Ile Val His Pro Val 115 120 125

Leu Asp Ser Pro Asn Ala Val His Glu Val Glu Lys Trp Leu Pro Arg 130 135 140

Leu His Ala Leu Val Val Gly Pro Gly Leu Gly Arg Asp Asp Ala Leu 145 150 155 160

Leu Arg Asn Val Gln Gly Ile Leu Glu Val Ser Lys Ala Arg Asp Ile 165 170 175

Pro Val Val Ile Asp Ala Asp Gly Leu Trp Xaa Val Ala Gln Gln Pro 180 185 190

Ala Leu Ile His Gly Tyr Arg Lys Ala Val Leu Thr Pro Asn His Val 195 200 205

Glu Phe Ser Arg Leu Tyr Asp Ala Val Leu Arg Gly Pro Met Asp Ser 210 215 220

Asp Asp Ser His Gly Ser Val Leu Arg Leu Ser Gln Ala Leu Gly Asn 225 230 235 240

Val Thr Val Val Gln Lys Gly Glu Arg Asp Ile Leu Ser Asn Gly Gln 245 250 255

Gln Val Leu Val Cys Ser Gln Glu Gly Ser Ser Ala Gly Val Glu Gly

265

Lys Gly Thr Ser Cys Arg Ala Pro Trp Ala Ser Trp 275 280

<210> 250

<211> 114

<212> PRT

<213> Homo sapiens

<400> 250

Met Ala Trp Val Glu Met Ile Val His Pro Val Leu Asp Ser Pro Asn 1 5 10 15

Ala Val His Glu Val Glu Lys Trp Leu Pro Arg Leu His Ala Leu Val 20 25 30

Val Gly Thr Gly Leu Gly Arg Asp Asp Ala Leu Leu Arg Asn Val Gln 35 40 45

Gly Ile Leu Glu Val Ser Lys Ala Arg Asp Ile Pro Val Val Ile Asp 50 55 60

Ala Asp Gly Leu Trp Leu Val Ala Gln Gln Pro Ala Leu Ile His Gly 65 70 75 80

Tyr Arg Lys Ala Val Leu Thr Pro Asn His Val Glu Phe Ser Arg Leu 85 90 95

Tyr Asp Ala Val Leu Arg Gly Pro Met Asp Ser Asp Asp Arg Cys Leu 100 105 110

Val Pro

<210> 251

<211> 202

<212> PRT

<213> Homo sapiens

-400× 251

Glu Phe Gly Thr Arg Leu Arg Ala Val Ala Ser Val Gly Ala Ala Leu 1 5 10 15

Ile Leu Phe Pro Cys Leu Leu Tyr Gly Ala Tyr Ala Phe Leu Pro Phe 20 25 30

Asp Val Pro Arg Leu Pro Thr Met Ser Ser Arg Leu Ile Tyr Thr Leu 35 40 45

Arg Cys Gly Val Phe Ala Thr Phe Pro Ile Val Leu Gly Ile Leu Val 50 55 60

Tyr Gly Leu Ser Leu Leu Cys Phe Ser Ala Leu Arg Pro Phe Gly Glu 65 70 75 80

Pro Arg Arg Glu Val Glu Ile His Arg Arg Tyr Val Ala Gln Ser Val 85 90 95

Gln Leu Phe Ile Leu Tyr Phe Phe Asn Leu Ala Val Leu Ser Thr Tyr
100 105 110

Leu Pro Gln Asp Thr Leu Lys Leu Pro Leu Leu Thr Gly Leu Phe
115 120 125

Ala Val Ser Arg Leu Ile Tyr Trp Leu Thr Phe Ala Val Gly Arg Ser 130 135 140

Phe Arg Gly Phe Gly Tyr Gly Leu Thr Phe Leu Pro Leu Leu Ser Met 145 150 155 160

Leu Met Trp Asn Leu Tyr Tyr Met Phe Val Val Glu Pro Glu Arg Met 165 170 175

Leu Thr Ala Thr Glu Ser Arg Leu Asp Tyr Pro Asp His Ala Arg Ser 180 185 190

Ala Ser Asp Tyr Arg Pro Arg Pro Trp Gly
195 200

<210> 252

<211> 22

<212> PRT

<213> Homo sapiens

<400> 252

Thr Trp Gly His Val His Thr Thr Ala Arg Ala Tyr Cys Val Ser Arg
1 5 10 15

Trp Leu Val Cys Leu Arg 20

<210> 253

<211> 30

<212> PRT

<213> Homo sapiens

<400> 253

Gly Thr Ser Phe Ser Ile Leu Ser Leu Ala Ala Cys Leu Val Val Glu
1 10 15

Ala Val Val Trp Lys Ser Val Thr Lys Asn Arg Thr Ser Tyr 20 25 30

<210> 254

<211> 241

<212> PRT

<213> Homo sapiens

<400> 254

His Trp Gly Leu Met Leu Phe Tyr Arg Leu Val Phe Ile Leu His Glu

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<400> 255

1				5					10			*		15	
Thr	Ser	Arg	Ser 20	Thr	Gln	Lys	Ala	Ile 25	Ala	Phe	Cys	Leu	Gly 30	Tyr	Gly
Cys	Pro	Leu 35	Ala	Ile	Ser	Val	Ile 40	Thr	Leu	Gly	Ala	Thr 45	Gln	Pro	Arg
Glu	Val 50	Tyr	Thr	Arg	Lys	Asn 55	Val	Cys	Trp	Leu	Asn 60	Trp	Glu	Asp	Thr
Lys 65	Ala	Leu	Leu	Ala	Phe 70	Ala	Ile	Pro	Ala	Leu 75	Ile	Ile	Val	Val	Val 80
Asn	Ile	Thr	Ile	Thr 85	Ile	Val	Val	Ile	Thr 90	Lys	Ile	Leu	Arg	Pro 95	Ser
Ile	Gly	Asp	Lys 100	Pro	Cys	Lys	Gln	Glu 105	Lys	Ser	Ser	Leu	Phe 110	Gln	Ile
Ser	Lys	Ser 115	Ile	Gly	Val	Leu	Thr 120	Pro	Leu	Leu	Gly	Leu 125	Thr	Trp	Gly
Phe	Gly 130	Leu	Thr	Thr	Val	Phe 135	Pro	Gly	Thr	Asn	Leu 140	Val	Phe	His	Ile
Ile 145	Phe	Ala	Ile	Leu	Asn 150	Val	Phe	Gln	Gly	Leu 155	Phe	Ile	Leu	Leu	Phe 160
Gly	Cys	Leu	Trp	Asp 165	Leu	Lys	Val	Gln	Glu 170	Ala	Leu	Leu	Asn	Lys 175	Phe
Ser	Leu	Ser	Arg 180	Trp	Ser	Ser	Gln	His 185	Ser	Lys	Ser	Thr	Ser 190	Leu	Gly
Ser	Ser	Thr 195	Pro	Val	Phe	Ser	Met 200		Ser	Pro	Ile	Ser 205	Arg	Arg	Phe
Asn	Asn 210	Leu	Phe	Gly	Lys	Thr 215	Gly	Thr	Tyr	Asn	Val 220	Ser	Thr	Pro	Glu
Ala 225	Thr	Ser	Ser	Ser	Leu 230	Glu	Asn	Ser	Ser	Ser 235	Ala	Ser	Ser	Leu	Leu 240
Asn															
<210> 255 <211> 36 <212> PRT <213> Homo sapiens															

His Trp Gly Leu Met Leu Phe Tyr Arg Leu Val Phe Ile Leu His Glu
1 5 10 15

Thr Ser Arg Ser Thr Gln Lys Ala Ile Ala Phe Cys Leu Gly Tyr Gly

25

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Cys Pro Leu Ala
35
```

<210> 256

<211> 35

<212> PRT

<213> Homo sapiens

<400> 256

Ile Ser Val Ile Thr Leu Gly Ala Thr Gln Pro Arg Glu Val Tyr Thr 1 5 10 15

Arg Lys Asn Val Cys Trp Leu Asn Trp Glu Asp Thr Lys Ala Leu Leu 20 25 30

Ala Phe Ala

35

<210> 257

<211> 35

man hand the

<212> PRT

<213> Homo sapiens

<400> 257

Ile Pro Ala Leu Ile Ile Val Val Val Asn Ile Thr Ile Thr Ile Val 1 5 10 15

Val Ile Thr Lys Ile Leu Arg Pro Ser Ile Gly Asp Lys Pro Cys Lys 20 25 30

Gln Glu Lys

35

<210> 258

<211> 36

<212> PRT

<213> Homo sapiens

<400> 258

Ser Ser Leu Phe Gln Ile Ser Lys Ser Ile Gly Val Leu Thr Pro Leu
1 5 10 15

Leu Gly Leu Thr Trp Gly Phe Gly Leu Thr Thr Val Phe Pro Gly Thr

Asn Leu Val Phe

35

<210> 259

<211> 36

<212> PRT

```
<400> 259
His Ile Ile Phe Ala Ile Leu Asn Val Phe Gln Gly Leu Phe Ile Leu
                                      10
Leu Phe Gly Cys Leu Trp Asp Leu Lys Val Gln Glu Ala Leu Leu Asn
Lys Phe Ser Leu
         35
<210> 260
<211> 35
<212> PRT
<213> Homo sapiens
<400> 260
Ser Arg Trp Ser Ser Gln His Ser Lys Ser Thr Ser Leu Gly Ser Ser
Thr Pro Val Phe Ser Met Ser Ser Pro Ile Ser Arg Arg Phe Asn Asn
Leu Phe Gly
<210> 261
<211> 28
<212> PRT
<213> Homo sapiens
<400> 261
Lys Thr Gly Thr Tyr Asn Val Ser Thr Pro Glu Ala Thr Ser Ser Ser
Leu Glu Asn Ser Ser Ser Ala Ser Ser Leu Leu Asn
                                  25
<210> 262
<211> 237
<212> PRT
<213> Homo sapiens
Met Leu Phe Tyr Arg Leu Val Phe Ile Leu His Glu Thr Ser Arg Ser
Thr Gln Lys Ala Ile Ala Phe Cys Leu Gly Tyr Gly Cys Pro Leu Ala
Ile Ser Val Ile Thr Leu Gly Ala Thr Gln Pro Arg Glu Val Tyr Thr
Arg Lys Asn Val Cys Trp Leu Asn Trp Glu Asp Thr Lys Ala Leu Leu
```

55

- Ala Phe Ala Ile Pro Ala Leu Ile Ile Val Val Val Asn Ile Thr Ile
 65 70 75 80
- Thr Ile Val Val Ile Thr Lys Ile Leu Arg Pro Ser Ile Gly Asp Lys
 85 90 95
- Pro Cys Lys Gln Glu Lys Ser Ser Leu Phe Gln Ile Ser Lys Ser Ile 100 105 110
- Gly Val Leu Thr Pro Leu Leu Gly Leu Thr Trp Gly Phe Gly Leu Thr 115 120 125
- Thr Val Phe Pro Gly Thr Asn Leu Val Phe His Ile Ile Phe Ala Ile 130 135 140
- Leu Asn Val Phe Gln Gly Leu Phe Ile Leu Leu Phe Gly Cys Leu Trp 145 150 155 160
- Asp Leu Lys Val Gln Glu Ala Leu Leu Asn Lys Phe Ser Leu Ser Arg 165 . 170 175
- Trp Ser Ser Gln His Ser Lys Ser Thr Ser Leu Gly Ser Ser Thr Pro 180 185 190
- Val Phe Ser Met Ser Ser Pro Ile Ser Arg Arg Phe Asn Asn Leu Phe 195 200 205
- Gly Lys Thr Gly Thr Tyr Asn Val Ser Thr Pro Glu Ala Thr Ser Ser 210 215 220
- Ser Leu Glu Asn Ser Ser Ser Ala Ser Ser Leu Leu Asn 225 230 235
- <210> 263
- <211> 150
- <212> PRT
- <213> Homo sapiens
- <400> 263
- Met Glu His Lys Val Gly Pro Trp Glu His Ser Gly Glu Thr Lys Thr 1 5 10 15
- Pro Ser Glu Ala Gln Glu Trp Cys Glu Asp Pro Asn Ala Leu Ala Asp 20 25 / 30
- Leu Lys Gln Ala Ala Leu Leu Leu Ala Trp Leu Val Ser Asn Gly
 35 40 45
- Arg Pro Gln Asp Leu Gly Asp Asp His Asn Ser Asp Gly Tyr Val His 50 55
- His His Asn Asp Gln Cys Trp Asp Gly Glu Ser Gln Gln Gly Leu Gly 65 70 75 80
- Val Leu Pro Val Glu Pro Thr Asp Ile Leu Pro Arg Ile Asp Phe Pro 85 90 95

```
Gly Leu Gly Gly Ser Gln Arg Asp Asp Arg Asp Gly Lys Trp Ala Ala
100 105 110
```

Ile Ala Lys Thr Glu Gly Asn Gly Phe Leu Ser Gly Pro Ala Cys Phe
115 120 125

Met Gln Asn Glu Asn Gln Ala Ile Glu Gln His Glu Ala Pro Val Ser 130 135 140

Ala Ser Arg Arg Arg Arg 145 150

<210> 264

<211> 14

<212> PRT

<213> Homo sapiens

<400> 264

Thr Arg Pro Leu Trp Ile Pro Arg Ser Leu Val Leu Val Glu
1 5 10

<210> 265

<211> 43

<212> PRT

<213> Homo sapiens

<400> 265

Ser Lys Asp Ser Val Ser Ala Ile Ser Asp Ser Cys Leu Arg Pro Ser 20 25 30

Glu Arg Gly Phe Gly Arg Leu Leu Lys Gln Arg 35

<210> 266

<211> 211

<212> PRT

<213> Homo sapiens

<400> 266

Arg Gly Glu Ser Glu Glu Thr Gly Ser Ser Glu Gly Ala Pro Ser Leu

1 10 15

Leu Pro Ala Thr Arg Ala Pro Glu Gly Thr Arg Glu Leu Glu Ala Pro 20 25 30

Ser Glu Asp Asn Ser Gly Arg Thr Ala Pro Ala Gly Thr Ser Val Gln 35 40 45

Ala Gln Pro Val Leu Pro Thr Asp Ser Ala Ser Arg Gly Gly Val Ala 50 55 60

Val Val Pro Ala Ser Gly Asp Cys Val Pro Ser Pro Cys His Asn Gly 65 70 75 80

Gly Thr Cys Leu Glu Glu Glu Gly Val Arg Cys Leu Cys Leu Pro 85 90 95

Gly Tyr Gly Gly Asp Leu Cys Asp Val Gly Leu Arg Phe Cys Asn Pro 100 105 110

Gly Trp Asp Ala Phe Gln Gly Ala Cys Tyr Lys His Phe Ser Thr Arg 115 120 125

Arg Ser Trp Glu Glu Ala Glu Thr Gln Cys Arg Met Tyr Gly Ala His 130 135 140

Leu Ala Ser Ile Ser Thr Pro Glu Glu Gln Asp Phe Ile Asn Asn Arg 145 150 155 160

Tyr Arg Glu Tyr Gln Trp Ile Gly Leu Asn Asp Arg Thr Ile Glu Gly
165 170 175

Asp Phe Leu Trp Ser Asp Gly Val Pro Leu Leu Tyr Glu Asn Trp Asn 180 185 190

Pro Gly Gln Pro Asp Ser Tyr Phe Leu Ser Gly Glu Asn Cys Val Val 195 200 205

Thr Arg Ala 210

<210> 267

<211> 42

<212> PRT

<213> Homo sapiens

<400> 267

Arg Gly Glu Ser Glu Glu Thr Gly Ser Ser Glu Gly Ala Pro Ser Leu
1 5 10 15

Leu Pro Ala Thr Arg Ala Pro Glu Gly Thr Arg Glu Leu Glu Ala Pro 20 25 30

Ser Glu Asp Asn Ser Gly Arg Thr Ala Pro 35 40

<210> 268

<211> 40

<212> PRT

<213> Homo sapiens

<400> 268

Ala Gly Thr Ser Val Gln Ala Gln Pro Val Leu Pro Thr Asp Ser Ala

1 5 10 15

Ser Arg Gly Gly Val Ala Val Val Pro Ala Ser Gly Asp Cys Val Pro

<210> 272 <211> 483 <212> PRT

```
Ser Pro Cys His Asn Gly Gly Thr
         35
<210> 269
<211> 43
<212> PRT
<213> Homo sapiens
<400> 269
Cys Leu Glu Glu Glu Gly Val Arg Cys Leu Cys Leu Pro Gly Tyr
Gly Gly Asp Leu Cys Asp Val Gly Leu Arg Phe Cys Asn Pro Gly Trp
Asp Ala Phe Gln Gly Ala Cys Tyr Lys His Phe
<210> 270
<211> 43
<212> PRT
<213> Homo sapiens
<400> 270
Ser Thr Arg Arg Ser Trp Glu Glu Ala Glu Thr Gln Cys Arg Met Tyr
Gly Ala His Leu Ala Ser Ile Ser Thr Pro Glu Glu Gln Asp Phe Ile
Asn Asn Arg Tyr Arg Glu Tyr Gln Trp Ile Gly
<210> 271
<211> 43
<212> PRT
<213> Homo sapiens
<400> 271
Leu Asn Asp Arg Thr Ile Glu Gly Asp Phe Leu Trp Ser Asp Gly Val
                  5
                                      10
                                                          15
Pro Leu Leu Tyr Glu Asn Trp Asn Pro Gly Gln Pro Asp Ser Tyr Phe
Leu Ser Gly Glu Asn Cys Val Val Thr Arg Ala
         35
```

<400> 272

Met Ala Val Cys Ala Thr Pro Ser Ser His Pro Ala Ser Ala Val Val 1 5 10 15

Gly Ala Cys Leu Val Ser Arg Leu Ser Ser Ser Ser Pro Thr Arg Leu
20 25 30

Ala Ser Pro Ile Ser Thr Ala Ala Ser Thr Ser Thr Ala Ser Glu Thr 35 40 45

Arg Pro Ser Leu Ser Ala Ile Pro Glu Ala Ser Asn Pro Ala Ser Asn 50 55 60

Pro Ala Ser Asp Gly Leu Glu Ala Ile Val Thr Val Thr Glu Thr Leu 65 70 75 80

Glu Glu Leu Gln Leu Pro Gln Glu Ala Thr Glu Ser Glu Ser Arg Gly 85 90 95

Ala Ile Tyr Ser Ile Pro Ile Met Glu Asp Gly Gly Gly Ser Ser 100 105 110

Thr Pro Glu Asp Pro Ala Glu Ala Pro Arg Thr Leu Leu Glu Phe Glu
. 115 120 125

Thr Gln Ser Met Val Pro Pro Thr Gly Phe Ser Glu Glu Glu Gly Lys 130 $$135\$

Ala Leu Glu Glu Glu Lys Tyr Glu Asp Glu Glu Glu Lys Glu Glu 145 150 155

Glu Glu Glu Glu Glu Val Glu Asp Glu Ala Leu Trp Ala Trp Pro 165 170 175

Ser Glu Leu Ser Ser Pro Gly Pro Glu Ala Ser Leu Pro Thr Glu Pro 180 185 190

Ala Ala Gln Glu Glu Ser Leu Ser Gln Ala Pro Ala Arg Ala Val Leu 195 200 205

Gln Pro Gly Ala Ser Pro Leu Pro Asp Gly Glu Ser Glu Ala Ser Arg 210 215 220

Pro Pro Arg Val His Gly Pro Pro Thr Glu Thr Leu Pro Thr Pro Arg 225 230 235 240

Glu Arg Asn Leu Ala Ser Pro Ser Pro Ser Thr Leu Val Glu Ala Arg 245 250 255

Glu Val Gly Glu Ala Thr Gly Gly Pro Glu Leu Ser Gly Val Pro Arg 260 265 270

Gly Glu Ser Glu Glu Thr Gly Ser Ser Glu Gly Ala Pro Ser Leu Leu 275 280 285

Pro Ala Thr Arg Ala Pro Glu Gly Thr Arg Glu Leu Glu Ala Pro Ser 290 295 300

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Glu Asp Asn Ser Gly Arg Thr Ala Pro Ala Gly Thr Ser Val Gln Ala 305 310 315 320

Gln Pro Val Leu Pro Thr Asp Ser Ala Ser Arg Gly Gly Val Ala Val
325 330 335

Val Pro Ala Ser Gly Asp Cys Val Pro Ser Pro Cys His Asn Gly Gly 340 345 350

Thr Cys Leu Glu Glu Glu Gly Val Arg Cys Leu Cys Leu Pro Gly 355 360 365

Tyr Gly Gly Asp Leu Cys Asp Val Gly Leu Arg Phe Cys Asn Pro Gly 370 375 380

Trp Asp Ala Phe Gln Gly Ala Cys Tyr Lys His Phe Ser Thr Arg Arg 385 390 395 400

Ser Trp Glu Glu Ala Glu Thr Gln Cys Arg Met Tyr Gly Ala His Leu 405 410 415

Ala Ser Ile Ser Thr Pro Glu Glu Gln Asp Phe Ile Asn Asn Arg Tyr 420 425 430

Arg Glu Tyr Gln Trp Ile Gly Leu Asn Asp Arg Thr Ile Glu Gly Asp 435 440 445

Phe Leu Trp Ser Asp Gly Val Pro Leu Leu Tyr Glu Asn Trp Asn Pro 450 450

Gly Gln Pro Asp Ser Tyr Phe Leu Ser Gly Glu Asn Cys Val Val Thr 465 470 475 480

Arg Val Ala

<210> 273

<211> 427

<212> PRT

<213> Homo sapiens

<400> 273

Ser Ala Ile Pro Glu Ala Ser Asn Pro Ala Ser Asn Pro Ala Ser Asp 1 5 10 15

Gly Leu Glu Ala Ile Val Thr Val Thr Glu Thr Leu Glu Glu Leu Gln \$20\$ \$25\$ 30

Leu Pro Gl
n Glu Ala Thr Glu Ser Glu Ser Arg Gly Ala Ile Tyr Ser
 $35 \hspace{1cm} 40 \hspace{1cm} 45$

Ile Pro Ile Met Glu Asp Gly Gly Gly Ser Ser Thr Pro Glu Asp

Pro Ala Glu Ala Pro Arg Thr Leu Leu Glu Phe Glu Thr Gln Ser Met 65 70 75 80

- Val Pro Pro Thr Gly Phe Ser Glu Glu Glu Gly Lys Ala Leu Glu Glu 85 90 95
- Glu Glu Lys Tyr Glu Asp Glu Glu Glu Lys Glu Glu Glu Glu Glu Glu Glu 100 105 110
- Glu Glu Val Glu Asp Glu Ala Leu Trp Ala Trp Pro Ser Glu Leu Ser 115 120 125
- Ser Pro Gly Pro Glu Ala Ser Leu Pro Thr Glu Pro Ala Ala Gln Glu 130 135 140
- Glu Ser Leu Ser Gln Ala Pro Ala Arg Ala Val Leu Gln Pro Gly Ala 145 150 155 160
- Ser Pro Leu Pro Asp Gly Glu Ser Glu Ala Ser Arg Pro Pro Arg Val 165 170 175
- His Gly Pro Pro Thr Glu Thr Leu Pro Thr Pro Arg Glu Arg Asn Leu 180 185 190
- Ala Ser Pro Ser Pro Ser Thr Leu Val Glu Ala Arg Glu Val Gly Glu
 195 200 205
- Ala Thr Gly Gly Pro Glu Leu Ser Gly Val Pro Arg Gly Glu Ser Glu 210 215 220
- Glu Thr Gly Ser Ser Glu Gly Ala Pro Ser Leu Leu Pro Ala Thr Arg 225 230 235 240
- Ala Pro Glu Gly Thr Arg Glu Leu Glu Ala Pro Ser Glu Asp Asn Ser 245 250 255
- Gly Arg Thr Ala Pro Ala Gly Thr Ser Val Gln Ala Gln Pro Val Leu 260 265 270
- Pro Thr Asp Ser Ala Ser Arg Gly Gly Val Ala Val Val Pro Ala Ser 275 280 285
- Gly Asp Cys Val Pro Ser Pro Cys His Asn Gly Gly Thr Cys Leu Glu 290 295 300
- Glu Glu Glu Gly Val Arg Cys Leu Cys Leu Pro Gly Tyr Gly Gly Asp 305 310 315 320
- Leu Cys Asp Val Gly Leu Arg Phe Cys Asn Pro Gly Trp Asp Ala Phe 325 330 335
- Gln Gly Ala Cys Tyr Lys His Phe Ser Thr Arg Arg Ser Trp Glu Glu
 340 345 350
- Ala Glu Thr Gln Cys Arg Met Tyr Gly Ala His Leu Ala Ser Ile Ser 355 360 365
- Thr Pro Glu Glu Gln Asp Phe Ile Asn Asn Arg Tyr Arg Glu Tyr Gln 370 375 380
- Trp Ile Gly Leu Asn Asp Arg Thr Ile Glu Gly Asp Phe Leu Trp Ser

Asp Gly Val Pro Leu Leu Tyr Glu Asn Trp Asn Pro Gly Gln Pro Asp
405 410 415

Ser Tyr Phe Leu Ser Gly Glu Asn Cys Val Val 420 425

<210> 274

<211> 196

<212> PRT

<213> Homo sapiens

<400> 274

 Met Ala Gln Leu Phe Leu Pro Leu Leu Ala Ala Leu Val Leu Ala Gln 1 5 10 15

Ala Pro Ala Ala Leu Ala Asp Val Leu Glu Gly Asp Ser Ser Glu Asp 20 25 30

Arg Ala Phe Arg Val Arg Ile Ala Gly Asp Ala Pro Leu Gln Gly Val 35 40 45

Leu Gly Gly Ala Leu Thr Ile Pro Cys His Val His Tyr Leu Arg Pro 50 55 60

Pro Pro Ser Arg Arg Ala Val Leu Gly Ser Pro Arg Val Lys Trp Thr 65 70 75 80

Phe Leu Ser Arg Gly Arg Glu Ala Glu Val Leu Val Ala Arg Gly Val 85 90 95

Arg Val Lys Val Asn Glu Ala Tyr Arg Phe Arg Val Ala Leu Pro Ala 100 105 110

Tyr Pro Ala Ser Leu Thr Asp Val Ser Leu Ala Leu Ser Glu Leu Arg 115 120 . 125

Pro Asn Asp Ser Gly Ile Tyr Arg Cys Glu Val Gln His Gly Ile Asp 130 135 140

Asp Ser Ser Asp Ala Val Glu Val Lys Val Lys Gly Ile Pro Ser Arg 145 150 155 160

Pro His Glu Arg Pro Val Thr Glu Thr Trp Met Ala Ser Pro Gly Ser 165 170 175

Gly Thr Met Val Trp Trp Thr Arg Met Thr Ser Met Met Cys Thr Val

Met Leu Lys Thr 195

<210> 275

<211> 247

<212> PRT

<213> Homo sapiens

<400> 275

Met Val Gly His Ala Trp Arg Arg Lys Gly Ser Ala Ala Tyr Val 1 5 10 15

Cys Leu Ala Met Gly Gly Thr Cys Ala Met Leu Ala Ser Ala Ser Ala 20 25 30

Thr Pro Ala Gly Thr Pro Ser Arg Ala Pro Ala Thr Ser Thr Phe Pro 35 40 45

His Glu Gly Ala Gly Arg Arg Gln Arg Pro Ser Ala Gly Cys Thr Ala 50 55 60

Arg Ile Trp Pro Ala Ser Ala His Pro Arg Asn Arg Thr Ser Ser Thr 65 70 75 80

Thr Gly Thr Gly Ser Thr Ser Gly Ser Asp Ser Thr Thr Gly Pro Ser
85 90 95

Lys Ala Thr Ser Cys Gly Arg Met Ala Ser Pro Cys Ser Met Arg Thr 100 105 110

Gly Thr Leu Gly Ser Leu Thr Ala Thr Ser Cys Leu Glu Arg Thr Ala 115 120 125

Trp Ser Leu Val Trp His Asp Gln Gly Gln Trp Ser Asp Val Pro Cys 130 135 140

Asn Tyr His Leu Ser Tyr Thr Cys Lys Met Gly Leu Val Ser Cys Gly 145 150 155 160

Pro Pro Pro Glu Leu Pro Leu Ala Gln Val Phe Gly Arg Pro Arg Leu 165 170 175

Arg Tyr Glu Val Asp Thr Val Leu Arg Tyr Arg Cys Arg Glu Gly Leu 180 185 190

Ala Gln Arg Asn Leu Pro Leu Ile Arg Cys Gln Glu Asn Gly Arg Trp 195 200 205

Gly Gly Pro Pro Asp Phe Leu Cys Cys Pro Glu Asp Leu Pro Glu Phe 210 215 220

Leu Gln Pro Arg Gly Arg Asp Pro Glu Gly Thr Ser Arg Glu Val Tyr 225 230 235 240

Leu Gly Thr Phe Gly Arg Arg 245

<210> 276

<211> 128

<212> PRT

<213> Homo sapiens

<400> 276

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Ser Tyr Lys Asp Ser Leu Val Pro Arg Gln Glu Gly Gly Leu Phe Trp 1 5 10 15
```

Glu Arg Lys Gly Leu Phe Ser Cys Phe Leu Ser Cys Lys Val Ser Ser 20 25 30

Ser Gln Ser Gln Phe Ser Leu Cys Pro Gly Met Lys Lys Asp Ser Leu 35 40 45

Glu Val Arg Ser Lys Met Val Cys Leu Gly Gln Ile Ser Phe Thr Val 50 55 60

Leu Ala Val Ile Leu Gln Trp Gln Phe Gln Asn Phe Gly Gln Arg Pro
65 70 75 80

Ser Ile Phe Leu Arg Pro His Phe Leu Phe Met Cys Val Val Ile Leu 85 90 95

Leu Gln Asn Phe Leu Leu Ser Ser Ala Lys Thr Gly Leu Leu Ser His
100 105 110

Glu Trp Glu Arg Leu Gly Leu Gln Ala Arg Thr Arg Val Arg Lys Thr 115 120 125

<210> 277

<211> 86

<212> PRT

<213> Homo sapiens

<400> 277

Met Lys Lys Asp Ser Leu Glu Val Arg Ser Lys Met Val Cys Leu Gly
1 5 10 15

Gln Ile Ser Phe Thr Val Leu Ala Val Ile Leu Gln Trp Gln Phe Gln 20 25 30

Asn Phe Gly Gln Arg Pro Ser Ile Phe Leu Arg Pro His Phe Leu Phe 35 40 45

Met Cys Val Val Ile Leu Leu Gln Asn Phe Leu Leu Ser Ser Ala Lys 50 55 60

Thr Gly Leu Ser His Glu Trp Glu Arg Leu Gly Leu Gln Ala Arg 65 70 75 80

Thr Arg Val Arg Lys Thr

<210> 278

<211> 81

<212> PRT

```
<400> 278
Gly Thr Arg Ser Ser His Val Pro Ile Ser Asp Ser Lys Ser Ile Gln
Lys Ser Glu Leu Leu Gly Leu Leu Lys Thr Tyr Asn Cys Tyr His Glu
Gly Lys Ser Phe Gln Leu Arg His Arg Glu Glu Glu Gly Thr Leu Ile
Ile Glu Gly Leu Leu Asn Ile Ala Trp Gly Leu Arg Arg Pro Ile Arg
Leu Gln Met Gln Asp Asp Arg Glu Gln Val His Leu Pro Ser Thr Ser
Trp
<210> 279
<211> 25
<212> PRT
<213> Homo sapiens
<400> 279
Val Pro Ile Ser Asp Ser Lys Ser Ile Gln Lys Ser Glu Leu Leu Gly
Leu Leu Lys Thr Tyr Asn Cys Tyr His
             20
<210> 280
<211> 28
<212> PRT
<213> Homo sapiens
<400> 280
Phe Gln Leu Arg His Arg Glu Glu Glu Gly Thr Leu Ile Ile Glu Gly
Leu Leu Asn Ile Ala Trp Gly Leu Arg Arg Pro Ile
              20
 <210> 281
 <211> 344
 <212> PRT
 <213> Homo sapiens
 <400> 281
 Gly Thr Arg Ser Ser His Val Pro Ile Ser Asp Ser Lys Ser Ile Gln
 Lys Ser Glu Leu Leu Gly Leu Leu Lys Thr Tyr Asn Cys Tyr His Glu
```

- Gly Lys Ser Phe Gln Leu Arg His Arg Glu Glu Glu Gly Thr Leu Ile 35 40 45
- Ile Glu Gly Leu Leu Asn Ile Ala Trp Gly Leu Arg Arg Pro Ile Arg
 50 55 60
- Leu Gln Met Gln Asp Asp Arg Glu Gln Val His Leu Pro Ser Thr Ser 65 70 75 80
- Trp Met Pro Arg Pro Ser Cys Pro Leu Gly Cys Trp Ser Leu Leu 85 90 95
- Leu Gly Leu Ser Ser Leu Ser Leu Pro Ala Ala Ile Ser Ala Leu Gln
 100 105 110
- Leu Ser Val Phe Arg Lys Glu Pro Ser Pro Gln Asn Gly Asn Ile Thr 115 120 125
- Ala Gln Gly Pro Ser Ile Gln Pro Val His Lys Ala Glu Ser Ser Thr 130 135 140
- Asp Ser Ser Gly Pro Leu Glu Glu Ala Glu Glu Ala Pro Gln Leu Met 145 150 155 160
- Arg Thr Lys Ser Asp Ala Ser Cys Met Ser Gln Arg Arg Pro Lys Cys 165 170 175
- Arg Ala Pro Gly Glu Ala Gln Arg Ile Arg Arg His Arg Phe Ser Ile 180 185 190
- Asn Gly His Phe Tyr Asn His Lys Thr Ser Val Phe Thr Pro Ala Tyr 195 200 205
- Gly Ser Val Thr Asn Val Arg Val Asn Ser Thr Met Thr Thr Leu Gln 210 215 220
- Val Leu Thr Leu Leu Leu Asn Lys Phe Arg Val Glu Asp Gly Pro Ser 225 230 235 240
- Glu Phe Ala Leu Tyr Ile Val His Glu Ser Gly Glu Arg Thr Lys Leu 245 250 255
- Lys Asp Cys Glu Tyr Pro Leu Ile Ser Arg Ile Leu His Gly Pro Cys 260 265 270
- Glu Lys Ile Ala Arg Ile Phe Leu Met Glu Ala Asp Leu Gly Val Glu 275 280 285
- Val Pro His Glu Val Ala Gln Tyr Ile Lys Phe Glu Met Pro Val Leu 290 295 300
- Asp Ser Phe Val Glu Lys Leu Lys Glu Glu Glu Glu Arg Glu Ile Ile 305 310 315 320
- Lys Leu Thr Met Lys Phe Gln Ala Leu Arg Leu Thr Met Leu Gln Arg 325 330 335
- Leu Glu Gln Leu Val Glu Ala Lys

340

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<210> 282
```

<211> 27

<212> PRT

<213> Homo sapiens

<400> 282

Gly Cys Trp Ser Leu Leu Gly Leu Ser Ser Leu Ser Leu Pro Ala 1 5 10 15

Ala Ile Ser Ala Leu Gln Leu Ser Val Phe Arg
20 25

<210> 283

<211> 243

<212> PRT

<213> Homo sapiens

<400> 283

Thr Arg Thr Thr Ser Cys Arg Thr Pro Ser Thr Thr Ser His Leu Pro

1 5 10 15

Thr Ser Ser Thr Arg Ser Ser Pro Pro Trp Ser Leu Gly Pro Pro Gly
20 25 30

Val Val Ala Pro Thr Ala Ser Pro Ala Pro Thr Ala Ser Val Ala Pro 35 40 45

Ala Thr Thr Arg Arg Leu Ser Cys Ser Ala Leu Met Met Asn Ser Arg
50 55 60

Cys Gly Leu Gln Trp Arg Lys Cys Trp Arg His Ser His Gly Gln Ala 65 70 75 80

Val Pro His Leu Gln Pro His His Gln Ala Arg Arg Gln Leu Ala Gln 85 90 95

Cys Ser Arg Arg Leu Tyr Leu Leu Asp Gln Lys His Ser His Val Ala 100 105 110

Ser Arg Gly Thr Gly Asp Ser Gln Ala Arg Pro Trp Ala Phe Arg Asn 115 120 125

Ile Tyr Thr Trp Pro Ser Leu His Cys Pro Gly Glu Gly Arg Gly His
130 135 140

Trp Glu Gln Gly Leu Cys Pro Cys Cys Pro Ser Cys Ala Gly Gly Met 145 150 155 160

Leu Gly Pro Ala Ala Pro Arg Pro Gln Cys Leu Cys Val Asp Gln Arg 165 170 175

Leu Gln Pro Ser Ser Pro Ser Ser Pro Arg Asp Ser Gln Ala Glu Val

Gly Lys Pro Trp Leu Pro His Thr Pro Cys Asn Thr Leu Ser Asp Leu 195 200 205

Gly Ser Ser Arg Leu His Pro Phe Pro Val His Leu Cys Pro Val Leu 210 215 220

Asp Ser Pro His Pro Gly Gln Glu Trp Gly Cys Gly Arg Ser Val Val 225 230 235 240

Leu Pro Ser

<210> 284

<211> 162

<212> PRT

<213> Homo sapiens

<400> 284

Ile Leu Gly Ala Gly Cys Ser Gly Gly Ser Ala Gly Ala Ile Ala Thr 1 5 10 15

Val Arg Leu Cys Pro Thr Ser Ser Leu Thr Thr Arg Pro Gly Gly Ser 20 25 30

Trp His Ser Ala His Ala Ala Phe Ile Tyr Trp Thr Arg Asn Thr His 35 40 45

Met Ser Leu Pro Glu Glu Arg Gly Thr Ala Arg Leu Ala His Gly Pro 50 55 60

Ser Gly Ile Phe Ile His Gly Pro Ala Cys Thr Ala Arg Ala Arg Ala 65 70 75 80

Glu Asp Thr Gly Ser Lys Ala Tyr Ala Pro Ala Ala Arg Pro Val Leu 85 . 90 95

Gly Ala Cys Trp Asp Gln Pro His Pro Gly Pro Asn Ala Cys Val Trp 100 105 110

Thr Ser Gly Cys Ser Leu Leu Ala Pro Pro Pro Arg Glu Thr Leu Arg 115 120 125

Leu Arg Ser Ala Ser Arg Gly Ser Pro Thr His Arg Ala Ile Pro Cys 130 135 140

Leu Thr Trp Ala Leu Pro Ala Cys Ile Pro Ser Leu Ser Thr Phe Val 145 150 155 160

Gln Cys

<210> 285

<211> 35

<212> PRT

```
<400> 285
Thr Arg Thr Thr Ser Cys Arg Thr Pro Ser Thr Thr Ser His Leu Pro
Thr Ser Ser Thr Arg Ser Ser Pro Pro Trp Ser Leu Gly Pro Pro Gly
                                 25
Val Val Ala
         35
<210> 286
<211> 36
<212> PRT
<213> Homo sapiens
<400> 286
Pro Thr Ala Ser Pro Ala Pro Thr Ala Ser Val Ala Pro Ala Thr Thr
Arg Arg Leu Ser Cys Ser Ala Leu Met Met Asn Ser Arg Cys Gly Leu
Gln Trp Arg Lys
         35
<210> 287
<211> 36
<212> PRT
<213> Homo sapiens
<400> 287
Cys Trp Arg His Ser His Gly Gln Ala Val Pro His Leu Gln Pro His
His Gln Ala Arg Arg Gln Leu Ala Gln Cys Ser Arg Arg Leu Tyr Leu
Leu Asp Gln Lys
         35
<210> 288
<211> 35
<212> PRT
<213> Homo sapiens
His Ser His Val Ala Ser Arg Gly Thr Gly Asp Ser Gln Ala Arg Pro
Trp Ala Phe Arg Asn Ile Tyr Thr Trp Pro Ser Leu His Cys Pro Gly
                                  25
                                                      30
             20
Glu Gly Arg
         35
```

```
<210> 289
<211> 36
<212> PRT
<213> Homo sapiens
<400> 289
Gly His Trp Glu Gln Gly Leu Cys Pro Cys Cys Pro Ser Cys Ala Gly
Gly Met Leu Gly Pro Ala Ala Pro Arg Pro Gln Cys Leu Cys Val Asp
Gln Arg Leu Gln
         35
<210> 290
<211> 35
<212> PRT
<213> Homo sapiens
<400> 290
Pro Ser Ser Pro Ser Ser Pro Arg Asp Ser Gln Ala Glu Val Gly Lys
Pro Trp Leu Pro His Thr Pro Cys Asn Thr Leu Ser Asp Leu Gly Ser
Ser Arg Leu
 . 35
<210> 291
<211> 30
<212> PRT
<213> Homo sapiens
<400> 291
His Pro Phe Pro Val His Leu Cys Pro Val Leu Asp Ser Pro His Pro
                                     10
Gly Gln Glu Trp Gly Cys Gly Arg Ser Val Val Leu Pro Ser
<210> 292
<211> 38
<212> PRT
<213> Homo sapiens
<400> 292
Ile Leu Gly Ala Gly Cys Ser Gly Gly Ser Ala Gly Ala Ile Ala Thr
Val Arg Leu Cys Pro Thr Ser Ser Leu Thr Thr Arg Pro Gly Gly Ser
                                 25
```

Trp His Ser Ala His Ala 35

<210> 293

<211> 36

<212> PRT

<213> Homo sapiens

<400> 293

Ala Phe Ile Tyr Trp Thr Arg Asn Thr His Met Ser Leu Pro Glu Glu 1 5 10 15

Arg Gly Thr Ala Arg Leu Ala His Gly Pro Ser Gly Ile Phe Ile His $20 \hspace{1cm} 25 \hspace{1cm} 30$

Gly Pro Ala Cys 35

<210> 294

<211> 34

<212> PRT

<213> Homo sapiens

<400> 294

Thr Ala Arg Ala Arg Ala Glu Asp Thr Gly Ser Lys Ala Tyr Ala Pro 1 5 10 15

Ala Ala Arg Pro Val Leu Gly Ala Cys Trp Asp Gln Pro His Pro Gly 20 25 30

Pro Asn

<210> 295

<211> 54

<212> PRT

<213> Homo sapiens

<400> 295

Ala Cys Val Trp Thr Ser Gly Cys Ser Leu Leu Ala Pro Pro Pro Arg
1 5 10 15

Glu Thr Leu Arg Leu Arg Ser Ala Ser Arg Gly Ser Pro Thr His Arg 20 25 30

Ala Ile Pro Cys Leu Thr Trp Ala Leu Pro Ala Cys Ile Pro Ser Leu 35 40 45

Ser Thr Phe Val Gln Cys 50

<210> 296

<211> 184

<212> PRT

<222> (186)

```
<213> Homo sapiens
<220>
<221> SITE
<222> (157)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 296
Met Met Asn Ser Arg Cys Gly Leu Gln Trp Arg Lys Cys Trp Arg His
Ser His Gly Gln Ala Val Pro His Leu Gln Pro His His Gln Ala Arg
             20
Arg Gln Leu Ala Gln Cys Ser Arg Arg Leu Tyr Leu Leu Asp Gln Lys
His Ser His Val Ala Ser Arg Gly Thr Gly Asp Ser Gln Ala Arg Pro
Trp Ala Phe Arg Asn Ile Tyr Thr Trp Pro Ser Leu His Cys Pro Gly
Glu Gly Arg Gly His Trp Glu Gln Gly Leu Cys Pro Cys Cys Pro Ser
Cys Ala Gly Gly Met Leu Gly Pro Ala Ala Pro Arg Pro Gln Cys Leu
                                105
Cys Val Asp Gln Arg Leu Gln Pro Ser Ser Pro Ser Pro Arg Asp
                            120
Ser Gln Ala Glu Val Gly Lys Pro Trp Leu Pro His Thr Pro Cys Asn
                        135
Thr Leu Ser Asp Leu Gly Ser Ser Arg Leu His Pro Xaa Pro Val His
                    150
Leu Cys Pro Val Leu Asp Ser Pro His Pro Gly Gln Glu Trp Gly Cys
Gly Arg Ser Val Val Leu Pro Ser
            180
<210> 297
<211> 278
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 297

Ile Arg Gln Ser Leu Gly Gly Glu Ser Ser Ile Met Ser Glu Ile Arg

1 5 10 15

Gly Lys Pro Ile Glu Ser Ser Cys Met Tyr Gly Thr Cys Cys Leu Trp 20 25 30

Gly Lys Thr Tyr Ser Ile Gly Phe Leu Arg Phe Cys Lys Gln Ala Thr 35 40 45

Leu Gln Phe Cys Val Val Lys Pro Leu Met Ala Val Ser Thr Val Val
50 55 60

Leu Gln Ala Phe Gly Lys Tyr Arg Asp Gly Asp Phe Asp Val Thr Ser 65 70 75 80

Gly Tyr Leu Tyr Val Thr Ile Ile Tyr Asn Ile Ser Val Ser Leu Ala 85 90 95

Leu Tyr Ala Leu Phe Leu Phe Tyr Phe Ala Thr Arg Glu Leu Leu Ser 100 105 110

Pro Tyr Ser Pro Val Leu Lys Phe Phe Met Val Lys Ser Val Ile Phe 115 120 125

Leu Ser Phe Trp Gln Gly Met Leu Leu Ala Ile Leu Glu Lys Cys Gly 130 135 140

Ala Ile Pro Lys Ile His Ser Ala Arg Val Ser Val Gly Glu Gly Thr 145 150 155 160

Val Ala Ala Gly Tyr Gln Asp Phe Ile Ile Cys Val Glu Met Phe Phe 165 170 175

Ala Ala Leu Ala Leu Arg Xaa Ala Phe Xaa Tyr Lys Val Tyr Ala Asp 180 185 190

Lys Arg Leu Asp Ala Gln Gly Arg Cys Ala Pro Met Lys Ser Ile Ser 195 200 205

Ser Ser Leu Lys Glu Thr Met Asn Pro His Asp Ile Val Gln Asp Ala 210 215 220

Ile His Asn Phe Ser Pro Ala Tyr Gln Gln Tyr Thr Gln Gln Ser Thr 225 230 235 240

Leu Glu Pro Gly Pro Thr Trp Arg Gly Gly Ala His Gly Leu Ser Arg 245 250 255

Ser His Ser Leu Ser Gly Ala Arg Asp Asn Glu Lys Thr Leu Leu Leu 260 265 270

Ser Ser Asp Asp Glu Phe 275

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<210> 298
<211> 46
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 298
Pro His Arg Pro Pro Thr Pro Gln Ser Asn Phe Ser Ser His Pro Ser
Ser Gln Ala Leu Thr Ile Leu Lys Arg Leu Val Gly Thr Leu Leu Ser
Ala Thr Gly Lys Leu Val Arg Ala Arg Xaa Arg Ala Trp Gly
         35
<210> 299
<211> 102
<212> PRT
<213> Homo sapiens
<400> 299
Gly Val Met Arg Leu Arg Thr Arg Gln Lys Ser Arg Arg Gln Arg Lys
Glu Lys Met Ser Arg Arg Lys Ser Lys Arg Lys Met Lys Arg Lys Arg
Arg Arg Gln Arg Ala Arg Gly Gln Ser Gln Pro Met Arg Leu Ser
Phe His Pro Phe Pro Thr Leu Val Phe Phe Gln Val Leu Thr Gln Ser
Trp Val Leu Ser Ser Arg Arg Gln Leu Leu Val Val Arg Ala Gly Pro
His Pro Pro Trp Pro Leu Phe Asp Leu Pro His Ser Val Thr Pro Gln
Ala Ser His Thr Ser Val
            100
<210> 300
<211> 43
<212> PRT
<213> Homo sapiens
<400> 300
Met Lys Arg Lys Arg Arg Arg Gln Arg Ala Arg Gly Gln Ser Gln
```

<213> Homo sapiens

<400> 304

```
Pro Met Arg Leu Ser Phe His Pro Phe Pro Thr Leu Val Phe Phe Gln
                                 25
Val Leu Thr Gln Ser Trp Val Leu Ser Ser Arg
<210> 301
<211> 32
<212> PRT
<213> Homo sapiens
<400> 301
Arg Gln Leu Leu Val Val Arg Ala Gly Pro His Pro Pro Trp Pro Leu
Phe Asp Leu Pro His Ser Val Thr Pro Gln Ala Ser His Thr Ser Val
                                 25
<210> 302
<211> 52
<212> PRT
<213> Homo sapiens
<400> 302
His His Cys Pro Ala Leu Gln Pro Gly Thr His Thr His Thr His Thr
His Thr His Thr His Thr Arg Arg Gly Met Cys Leu Val Gln Ile Tyr
             20
Ile Lys Leu Thr His Arg Gln Ile Pro Cys Leu Cys Leu Leu Gly Pro
                              40
Asp Ser Ala Val
     50
<210> 303
<211> 8
<212> PRT
<213> Homo sapiens
 <400> 303
His Glu Ile Leu Gln Pro Ala Val
 <210> 304
 <211> 54
 <212> PRT
```

Asn Ser Arg Val Asp Pro Arg Val Arg Asp Gly Leu Met Tyr Gln Lys

1 10 15

Phe Arg Asn Gln Phe Leu Ser Phe Ser Met Tyr Gln Ser Phe Val Gln 20 25 30

Phe Leu Gln Tyr Tyr Tyr Gln Ser Gly Cys Leu Tyr Arg Leu Arg Ala 35 40 45

Leu Gly Glu Arg His Thr 50

<210> 305

<211> 116

<212> PRT

<213> Homo sapiens

<400> 305

Met Tyr Gln Ser Phe Val Gln Phe Leu Gln Tyr Tyr Tyr Gln Ser Gly
. 1 5 10 15

Cys Leu Tyr Arg Leu Arg Ala Leu Gly Glu Arg His Thr Met Asp Leu 20 25 30

Thr Val Glu Gly Phe Gln Ser Trp Met Trp Arg Gly Leu Thr Phe Leu 35 40 45

Leu Pro Phe Leu Phe Phe Gly His Phe Trp Gln Leu Phe Asn Ala Leu 50 55 60

Thr Leu Phe Asn Leu Ala Gln Asp Pro Gln Cys Lys Glu Trp Gln Val 65 70 75 80

Leu Met Cys Gly Phe Pro Phe Leu Leu Phe Leu Gly Asn Phe Phe 85 90 95

Thr Thr Leu Arg Val Val His His Lys Phe His Ser Gln Arg His Gly
100 105 110

Ser Lys Lys Asp 115

<210> 306

<211> 9

<212> PRT

<213> Homo sapiens

<400> 306

Ile Leu Met Pro Phe Cys Gly Leu His
1 5

<210> 307

<211> 72

<212> PRT

<213> Homo sapiens

<400> 307

Met Pro Phe Cys Gly Leu His Met Ala Ser Pro Ser Ile Ile Leu Leu 1 5 10 15

Leu Ile Phe Phe Phe Phe Phe Phe Ser Val Cys Ser Val Ser Gln
20 25 30

Tyr Met Phe Glu Asn Glu Cys Glu Ser Met Ser Arg Arg Gly Arg
35 40 45

Gly Leu Gly Arg Ser Arg Leu Lys Val Glu Gln Gly Pro Asp Ala Asp
50 55 60

Leu His Pro Arg Thr Leu Gly Ser 65 70

<210> 308

<211> 17

<212> PRT

<213> Homo sapiens

<400> 308

Leu Pro Leu Val Leu Pro Pro Thr Pro Pro Pro Pro Trp Leu Pro Ser

1 5 10 15

Leu

<210> 309

<211> 220

<212> PRT

<213> Homo sapiens

<400> 309

Thr Thr Met Tyr Ala Leu Trp Arg Thr Gly Pro Thr Thr Ser Pro Ala
1 5 10 15

Leu Leu Thr Leu Leu Ser Lys Gly Val Pro Arg Pro Ala Ala Pro Trp
20 25 30

Thr Met Ser Pro Ser Ser Val Ala Leu Ile Cys Leu Leu Arg Tyr Gly 35 40 45

Gln Leu Leu Glu Gln Ser Arg His Ser Trp Val Asn Thr Thr Ala Leu
. 50 55 60

Ile Thr Gly Cys Thr Asn Ala Ala Gly Leu Leu Val Val Gly Asn Phe 65 70 75 80

Gln Val Asp His Ala Arg Ser Leu His Tyr Val Gly Ala Gly Val Ala 85 90 95

Phe Pro Ala Gly Leu Leu Phe Val Cys Leu His Cys Ala Leu Ser Tyr 100 105 110 Gln Gly Ala Thr Ala Pro Leu Asp Leu Ala Val Ala Tyr Leu Arg Ser 115 120 125

Val Leu Ala Val Ile Ala Phe Ile Thr Leu Val Leu Ser Gly Val Phe 130 135 140

Phe Val His Glu Ser Ser Gln Leu Gln His Gly Ala Ala Leu Cys Glu 145 150 155 160

Trp Val Cys Val Ile Asp Ile Leu Ile Phe Tyr Gly Thr Phe Ser Tyr 165 170 175

Glu Phe Gly Ala Val Ser Ser Asp Thr Leu Val Ala Ala Leu Gln Pro 180 185 190

Thr Pro Gly Arg Ala Cys Lys Ser Ser Gly Ser Ser Ser Thr Ser Thr 195 200 205

His Leu Asn Cys Ala Pro Glu Ser Ile Ala Met Ile 210 215 220

<210> 310

<211> 37

<212> PRT

<213> Homo sapiens

<400> 310

Thr Thr Met Tyr Ala Leu Trp Arg Thr Gly Pro Thr Thr Ser Pro Ala
1 5 10 15

Leu Leu Thr Leu Leu Ser Lys Gly Val Pro Arg Pro Ala Ala Pro Trp
20 25 30

Thr Met Ser Pro Ser 35

<210> 311

<211> 34

<212> PRT

<213> Homo sapiens

<400> 311

Ser Val Ala Leu Ile Cys Leu Leu Arg Tyr Gly Gln Leu Leu Glu Gln 1 5 15

Ser Arg His Ser Trp Val Asn Thr Thr Ala Leu Ile Thr Gly Cys Thr 20 25 30

Asn Ala

<210> 312

<211> 37

<212> PRT

<213> Homo sapiens

Ser Ile Ala Met Ile 35

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<400> 312
Ala Gly Leu Leu Val Val Gly Asn Phe Gln Val Asp His Ala Arg Ser
Leu His Tyr Val Gly Ala Gly Val Ala Phe Pro Ala Gly Leu Leu Phe
Val Cys Leu His Cys
<210> 313
<211> 34
<212> PRT
<213> Homo sapiens
<400> 313
Ala Leu Ser Tyr Gln Gly Ala Thr Ala Pro Leu Asp Leu Ala Val Ala
Tyr Leu Arg Ser Val Leu Ala Val Ile Ala Phe Ile Thr Leu Val Leu
                                 25
Ser Gly
<210> 314
<211> 41
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<213> Homo sapiens
<400> 314
Val Phe Phe Val His Glu Ser Ser Gln Leu Gln His Gly Ala Ala Leu
Cys Glu Trp Val Cys Val Ile Asp Ile Leu Ile Phe Tyr Gly Thr Phe
Ser Tyr Glu Phe Gly Ala Val Ser Ser
<210> 315
<211> 37
<212> PRT
<213> Homo sapiens
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Asp Thr Leu Val Ala Ala Leu Gln Pro Thr Pro Gly Arg Ala Cys Lys
Ser Ser Gly Ser Ser Ser Thr Ser Thr His Leu Asn Cys Ala Pro Glu
             2.0
                                  25
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<400> 316
Ser Ala Ser Cys Ala Thr Gly Ser Ser Trp Ser Arg Val Gly Thr Leu
1 5 10 15

Gly Leu Thr Pro Arg His Ser Ser Gln Ala Ala Pro Thr Leu Arg Ala 20 25 30

Ser Trp Trp Leu Ala Thr Phe Arg Trp Ile Met Pro Gly Leu Cys Thr 35 40 45

Thr Leu Glu Leu Ala Trp Pro Ser Leu Arg Gly Cys Ser Leu Phe Ala 50 55 60

Cys Thr Val Leu Ser Pro Thr Lys Gly Pro Pro Pro Arg Trp Thr Trp 65 70 75 80

Leu Trp Pro Ile Cys Glu Val Cys Trp Leu Ser Ser Pro Leu Ser Pro 85 90 95

Trp Ser Ser Val Glu Ser Ser Leu Ser Met Arg Val Leu Ser Cys Asn
100 105 110

Met Gly Gln Pro Cys Val Ser Gly Cys Val Ser Ser Ile Ser Ser Phe 115 120 125

Ser Met Ala Pro Ser Ala Thr Ser Leu Gly Gln Ser Pro Gln Thr His 130 135 140

Trp Trp Leu His Cys Ser Leu Pro Leu Ala Gly Pro Ala Ser Pro Pro 145 150 155 160

Gly Ala Ala Ala Pro Pro Pro Thr Ser Thr Val Pro Pro Arg Ala Ser 165 170 175

Leu

<210> 317 <211> 38

<212> PRT

<213> Homo sapiens

<400> 317

Ser Ala Ser Cys Ala Thr Gly Ser Ser Trp Ser Arg Val Gly Thr Leu

1 5 10 15

Gly Leu Thr Pro Arg His Ser Ser Gln Ala Ala Pro Thr Leu Arg Ala 20 25 30

Ser Trp Trp Leu Ala Thr

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<210> 318
<211> 33
<212> PRT
<213> Homo sapiens
<400> 318
Phe Arg Trp Ile Met Pro Gly Leu Cys Thr Thr Leu Glu Leu Ala Trp
Pro Ser Leu Arg Gly Cys Ser Leu Phe Ala Cys Thr Val Leu Ser Pro
Thr
<210> 319
<211> 36
<212> PRT
<213> Homo sapiens
<400> 319
Lys Gly Pro Pro Pro Arg Trp Thr Trp Leu Trp Pro Ile Cys Glu Val
Cys Trp Leu Ser Ser Pro Leu Ser Pro Trp Ser Ser Val Glu Ser Ser
Leu Ser Met Arg
        35
<210> 320
<211> 35
<212> PRT
<213> Homo sapiens
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Val Leu Ser Cys Asn Met Gly Gln Pro Cys Val Ser Gly Cys Val Ser
                                      10
Ser Ile Ser Ser Phe Ser Met Ala Pro Ser Ala Thr Ser Leu Gly Gln
                                 25
Ser Pro Gln
        35
<210> 321
<211> 35
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<213> Homo sapiens
<400> 321
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Thr His Trp Trp Leu His Cys Ser Leu Pro Leu Ala Gly Pro Ala Ser

10 15 Pro Pro Gly Ala Ala Ala Pro Pro Pro Thr Ser Thr Val Pro Pro Arg 25 Ala Ser Leu 35 <210> 322 <211> 218 <212> PRT <213> Homo sapiens <400> 322 Met Tyr Ala Leu Trp Arg Thr Gly Pro Thr Thr Ser Pro Ala Leu Leu Thr Leu Leu Ser Lys Gly Val Pro Arg Pro Ala Ala Pro Trp Thr Met Ser Pro Ser Ser Val Ala Leu Ile Cys Leu Leu Arg Tyr Gly Gln Leu Leu Glu Gln Ser Arg His Ser Trp Val Asn Thr Thr Ala Leu Ile Thr Gly Cys Thr Asn Ala Ala Gly Leu Leu Val Val Gly Asn Phe Gln Val Asp His Ala Arg Ser Leu His Tyr Val Gly Ala Gly Val Ala Phe Pro Ala Gly Leu Leu Phe Val Cys Leu His Cys Ala Leu Ser Tyr Gln Gly 105 Ala Thr Ala Pro Leu Asp Leu Ala Val Ala Tyr Leu Arg Ser Val Leu Ala Val Ile Ala Phe Ile Thr Leu Val Leu Ser Gly Val Phe Phe Val 135 His Glu Ser Ser Gln Leu Gln His Gly Ala Ala Leu Cys Glu Trp Val 155 Cys Val Ile Asp Ile Leu Ile Phe Tyr Gly Thr Phe Ser Tyr Glu Phe 170

Gly Ala Val Ser Ser Asp Thr Leu Val Ala Ala Leu Gln Pro Thr Pro 180 185 190

Gly Arg Ala Cys Lys Ser Ser Gly Ser Ser Ser Thr Ser Thr His Leu 195 200 205

Asn Cys Ala Pro Glu Ser Ile Ala Met Ile

215

210

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<210> 323
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<211> 187

<212> PRT

<213> Homo sapiens

<400> 323

Met Ser Pro Ser Ser Val Ala Leu Ile Cys Leu Leu Arg Tyr Gly Gln 1 $$ 10 $$ 15

Leu Leu Glu Gln Ser Arg His Ser Trp Val Asn Thr Thr Ala Leu Ile 20 25 30

Thr Gly Cys Thr Asn Ala Ala Gly Leu Leu Val Val Gly Asn Phe Gln 35 40 45

Val Asp His Ala Arg Ser Leu His Tyr Val Gly Ala Gly Val Ala Phe 50 55 60

Pro Ala Gly Leu Leu Phe Val Cys Leu His Cys Ala Leu Ser Tyr Gln 65 70 75 80

Gly Ala Thr Ala Pro Leu Asp Leu Ala Val Ala Tyr Leu Arg Ser Val 85 90 95

Leu Ala Val Ile Ala Phe Ile Thr Leu Val Leu Ser Gly Val Phe Phe
100 105 110

Val His Glu Ser Ser Gln Leu Gln His Gly Ala Ala Leu Cys Glu Trp 115 120 125

Val Cys Val Ile Asp Ile Leu Ile Phe Tyr Gly Thr Phe Ser Tyr Glu 130 135 140

Phe Gly Ala Val Ser Ser Asp Thr Leu Val Ala Ala Leu Gln Pro Thr 145 150 155 160

Pro Gly Arg Ala Cys Lys Ser Ser Gly Ser Ser Ser Thr Ser Thr His
165 170 175

Leu Asn Cys Ala Pro Glu Ser Ile Ala Met Ile 180 185

<210> 324

<211> 67

<212> PRT

<213> Homo sapiens

<400> 324

Met Thr Ala Trp Ile Leu Leu Pro Val Ser Leu Ser Ala Phe Ser Ile 1 5 10 15

Thr Gly Ile Trp Thr Val Tyr Ala Met Ala Val Met Asn His His Val
20 25 30

Cys Pro Val Glu Asn Trp Ser Tyr Asn Glu Ser Cys Pro Pro Asp Pro 35 40 45

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Ala Glu Gln Gly Gly Pro Lys Thr Cys Cys Thr Leu Asp Asp Val Pro
                         55
Leu Ile Ser
65
<210> 325
<211> 135
<212> PRT
<213> Homo sapiens
<400> 325
Met Pro Gly Leu Cys Thr Thr Leu Glu Leu Ala Trp Pro Ser Leu Arg
Gly Cys Ser Leu Phe Ala Cys Thr Val Leu Ser Pro Thr Lys Gly Pro
Pro Pro Arg Trp Thr Trp Leu Trp Pro Ile Cys Glu Val Cys Trp Leu
Ser Ser Pro Leu Ser Pro Trp Ser Ser Val Glu Ser Ser Leu Ser Met
Arg Val Leu Ser Cys Asn Met Gly Gln Pro Cys Val Ser Gly Cys Val
Ser Ser Ile Ser Ser Phe Ser Met Ala Pro Ser Ala Thr Ser Leu Gly
Gln Ser Pro Gln Thr His Trp Trp Leu His Cys Ser Leu Pro Leu Ala
Gly Pro Ala Ser Pro Pro Gly Ala Ala Pro Pro Pro Thr Ser Thr
Val Pro Pro Arg Ala Ser Leu
    130
<210> 326
<211> 15
<212> PRT
<213> Homo sapiens
<400> 326
Ser Cys His Ser Gly Gln Gln Ser Glu Thr Val Ser Glu Lys Lys
<210> 327
<211> 15
<212> PRT
<213> Homo sapiens
<400> 327
Ser Pro Pro Ile Ser Phe Thr Leu Thr Ser Gly Leu Pro Asn Pro
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5 10 15 <210> 328 <211> 80 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (15) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (16) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (24) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (70) <223> Xaa equals any of the naturally occurring L-amino acids <400> 328 Gln Phe His Thr Gly Asn Ser Tyr Asp His Asp Tyr Ala Lys Xaa Xaa 10 Tyr Gly Asn Leu Tyr Tyr Arg Xaa Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Glu Lys Ile Phe Leu Ser 40 Lys Leu Ile Val Cys Phe Leu Ser Thr Trp Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Xaa Leu Lys Val Gln Ile Pro Ala Tyr Ile Glu 75 <210> 329

<211> 21
<212> PRT
<213> Homo sapiens
<400> 329
Ile Pro Ile Arg Phe Val Asn Ile Phe Phe His Ser Ala Gly Cys Leu
1 5 10 15
Phe Ile Phe Leu Ile

<210> 330

<211> 655

<212> PRT

<213> Homo sapiens

<400> 330

Tyr Arg Ile Pro Leu Ala Ala Asp Ala Gly Leu Leu Gln Phe Leu Gln 1 5 10 15

Glu Phe Ser Gln Gln Thr Ile Ser Arg Thr His Glu Ile Lys Lys Gln 20 25 30

Val Asp Gly Leu Ile Arg Glu Thr Lys Ala Thr Asp Cys Arg Leu His 35 40 45

Asn Val Phe Asn Asp Phe Leu Met Leu Ser Asn Thr Gln Phe Ile Glu 50 55 60

Asn Arg Val Tyr Asp Glu Glu Val Glu Glu Pro Val Leu Lys Ala Glu 65 70 75 80

Ala Glu Lys Thr Glu Gln Glu Lys Thr Arg Glu Gln Lys Glu Val Asp 85 90 95

Leu Ile Pro Lys Val Gln Glu Ala Val Asn Tyr Gly Leu Gln Val Leu 100 105 110

Asp Ser Ala Phe Glu Gln Leu Asp Ile Lys Ala Gly Asn Ser Asp Ser 115 120 125

Glu Glu Asp Asp Ala Asn Gly Arg Val Glu Leu Ile Leu Glu Pro Lys 130 135 140

Asp Leu Tyr Ile Asp Arg Pro Leu Pro Tyr Leu Ile Gly Ser Lys Leu 145 150 155 160

Phe Met Glu Gln Glu Asp Val Gly Leu Gly Glu Leu Ser Ser Glu Glu 165 170 175

Gly Ser Val Gly Ser Asp Arg Gly Ser Ile Val Asp Thr Glu Glu 180 185 190

Lys Glu Glu Glu Ser Asp Glu Asp Phe Ala His His Ser Asp Asn 195 200 205

Glu Gln Asn Gln His Thr Thr Gln Met Ser Asp Glu Glu Glu Asp Asp 210 215 220

Asp Gly Cys Asp Leu Phe Ala Asp Ser Glu Lys Glu Glu Glu Asp Ile 225 230 235 240

Glu Asp Ile Glu Glu Asn Thr Arg Pro Lys Arg Ser Arg Pro Thr Ser 245 250 255

Phe Ala Asp Glu Leu Ala Ala Arg Ile Lys Gly Asp Ala Met Gly Arg

			260	•				265					270)	
Val	Asp	Glu 275	Glu	Pro	Thr	Thr	Leu 280	Pro	Ser	Gly	Glu	Ala 285		Pro	Arg
Lys	Thr 290	Leu	Lys	Glu	Lys	Lys 295		Arg	Arg	Thr	Pro 300	Ser	Asp	Asp	Glu
Glu 305	Asp	Asn	Leu	Phe	Ala 310	Pro	Pro	Lys	Leu	Thr 315	Asp	Glu	Asp	Phe	Ser 320
Pro	Phe	Gly	Ser	Gly 325	Gly	Gly	Leu	Phe	Ser 330	Gly	Gly	Lys	Gly	Leu 335	Phe
Asp	Asp	Glu	Asp 340	Glu	Glu	Ser	Asp	Leu 345	Phe	Met	Glu	Ala	Pro 350	Gln	Asp
Arg	Gln	Ala 355	Gly	Ala	Ser	Val	Lys 360	Glu	Glu	Ser	Ser	Ser 365	Ser	Lys	Pro
Gly	Lys 370	Lys	Ile	Pro	Ala	Gly 375	Ala	Val	Ser	Val	Phe 380	Leu	Gly	Asp	Thr
Asp 385	Val	Phe	Gly	Ala	Ala 390	Ser	Val	Pro	Ser	Leu 395	Lys	Glu	Pro	Gln	Lys 400
Pro	Glu	Gln	Pro	Thr 405	Pro	Arg	Lys	Ser	Pro 410	Tyr	Gly	Pro	Pro	Pro 415	Thr
Gly	Leu	Phe	Asp 420	Asp	Asp	Asp	Gly	Asp 425	Asp	Asp	Asp	Asp	Phe 430	Phe	Ser
Ala	Pro	His 435	Ser	Lys	Pro	Ser	Lys 440	Thr	Arg	Lys	Val	Gln 445	Ser	Thr	Ala
Asp	Ile 450	Phe	Gly	Asp	Glu	Glu 455	Gly	Asp	Leu	Phe	Lys 460	Glu	Lys	Ala	Val
Ala 465	Ser	Pro	Glu	Ala	Thr 470	Val	Ser	Gln	Thr	Asp 475	Glu	Asn	Lys	AÌa	Arg 480
Ala	Glu	Lys	Lys	Asp 485	Leu	Phe	Ser	Ser	Gln 490	Ser	Ala	Ser	Asn	Leu 495	Lys
Gly	Ala	Ser	Leu 500	Leu	Pro	Gly	Lys	Leu 505	Pro	Thr	Ser	Val	Ser 510	Leu	Phe
Asp	Asp	Glu 515	Asp	Glu	Glu	Asp	Asn 520	Leu	Phe	Gly	Gly	Thr 525	Ala	Ala	Lys
Lys	Gln 530	Thr	Leu	Ser	Leu	Gln 535	Ala	Gln	Arg	Glu	Glu 540	Lys	Ala	Lys	Ala
Ser 545	Glu	Leu	Ser	Lys	Lys 550	Lys	Ala	Ser	Ala	Leu 555	Leu	Phe	Ser	Ser	Asp 560
3lu	Glu	Asp	Gln	Trp	Asn	Ile	Pro	Ala	Ser	Gln	Thr	His	Leu	Ala	Ser

THE PARTY OF THE P

- Asp Ser Arg Ser Lys Gly Glu Pro Arg Asp Ser Gly Thr Leu Gln Ser 580 585 590
- Gln Glu Ala Lys Ala Val Lys Lys Thr Ser Leu Phe Glu Glu Asp Lys 595 600 605
- Glu Asp Asp Leu Phe Ala Ile Ala Lys Asp Ser Gln Lys Lys Thr Gln 610 615 620
- Arg Val Ser Leu Leu Phe Glu Asp Asp Val Asp Ser Gly Gly Ser Leu 625 630 635
- Phe Gly Ser Pro Pro Thr Ser Val Pro Pro Ala Thr Lys Lys Lys 645 650 655
- <210> 331
- <211> 182
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> SITE
- <222> (22)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 331
- Phe Leu Pro Asp His Pro Ala Lys Pro Pro Ser Ser Leu Val His Ser 1 5 10 15
- Pro Phe Val Phe Gly Xaa Pro Leu Ser Phe Gln Gln Pro Gln Leu Gln 20 25 30
- Lys Ser Pro Ser Arg Asn Leu Ala Ser Arg Glu Arg Ile Tyr Lys Asn 35 40 45
- Tyr Gly Val Ala Gly Pro Ala Ser Ala Leu Ser Ser Leu Ser His Lys
 50 60
- Leu Lys Gly Asp Arg Gly Asn Ile Ser Thr Ser Ser Lys Pro Ala Ser 65 70 75 80
- Thr Ser Gly Lys Ser Glu Leu Ser Ser Lys His Ser Arg Ser Leu Lys
 85 90 95
- Pro Asp Gly Arg Met Ser Arg Thr Thr Ala Asp Gln Lys Lys Pro Arg
- Gly Thr Glu Ser Leu Ser Ala Ser Glu Ser Leu Ile Leu Lys Ser Asp 115 120 125
- Ala Ala Lys Leu Arg Ser Asp Ser His Ser Arg Ser Leu Ser Pro Asn 130 135 140
- His Asn Thr Leu Gln Thr Leu Lys Ser Asp Gly Arg Met Pro Ser Ser 145 150 155 160

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Ser Arg Ala Glu Ser Pro Gly Pro Gly Ser Arg Leu His Leu Leu Ser
                                    170
Gln Arg Leu Ser Gln Gln
            180
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<211> 60
<212> PRT
<213> Homo sapiens
<220>
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<400> 332
Phe Leu Pro Asp His Pro Ala Lys Pro Pro Ser Ser Leu Val His Ser
Pro Phe Val Phe Gly Kaa Pro Leu Ser Phe Gln Gln Pro Gln Leu Gln
Lys Ser Pro Ser Arg Asn Leu Ala Ser Arg Glu Arg Ile Tyr Lys Asn
Tyr Gly Val Ala Gly Pro Ala Ser Ala Leu Ser Ser
<210> 333
<211> 60
<212> PRT
<213> Homo sapiens
<400> 333
Leu Ser His Lys Leu Lys Gly Asp Arg Gly Asn Ile Ser Thr Ser Ser
Lys Pro Ala Ser Thr Ser Gly Lys Ser Glu Leu Ser Ser Lys His Ser
Arg Ser Leu Lys Pro Asp Gly Arg Met Ser Arg Thr Thr Ala Asp Gln
         35
                             40
Lys Lys Pro Arg Gly Thr Glu Ser Leu Ser Ala Ser
     50
<210> 334
<211> 62
<212> PRT
<213> Homo sapiens
<400> 334
Glu Ser Leu Ile Leu Lys Ser Asp Ala Ala Lys Leu Arg Ser Asp Ser
```

10

15

5

His Ser Arg Ser Leu Ser Pro Asn His Asn Thr Leu Gln Thr Leu Lys
20 25 30

Ser Asp Gly Arg Met Pro Ser Ser Ser Arg Ala Glu Ser Pro Gly Pro 35 40 45

Gly Ser Arg Leu His Leu Leu Ser Gln Arg Leu Ser Gln Gln 50 55 60

<210> 335

<211> 487

<212> PRT

<213> Homo sapiens

<400> 335

Met Val Glu Phe Cys Glu Ser Asp Glu Gly Glu Ala Trp Ser Leu Ala 1 5 10 15

Arg Asp Arg Gly Gly Asn Gln Tyr Leu Arg His Glu Asp Glu Gln Ala
20 25 30

Leu Leu Asp Gln Asn Ser Gln Thr Pro Pro Pro Ser Pro Phe Ser Val
35 40 45

Gln Ala Phe Asn Lys Gly Ala Ser Cys Ser Ala Gln Gly Phe Asp Tyr 50 55 60

Gly Leu Gly Asn Ser Lys Gly Asp Gln Leu Ser Ala Ile Leu Asn Ser 65 70 75 80

Ile Gln Ser Arg Pro Asn Leu Pro Ala Pro Ser Ile Phe Asp Gln Ala 85 90 95

Ala Lys Pro Pro Ser Ser Leu Val His Ser Pro Phe Val Phe Gly Gln
100 105 110

Pro Leu Ser Phe Gln Gln Pro Gln Leu Gln Lys Ser Pro Ser Arg Asn 115 120 125

Leu Ala Ser Arg Glu Arg Ile Tyr Lys Asn Tyr Gly Val Ala Gly Pro 130 135 140

Ala Ser Ala Leu Ser Ser Leu Ser His Lys Leu Lys Gly Asp Arg Gly 145 150 155 160

Asn Ile Ser Thr Ser Ser Lys Pro Ala Ser Thr Ser Gly Lys Ser Glu 165 170 175

Leu Ser Ser Lys His Ser Arg Ser Leu Lys Pro Asp Gly Arg Met Ser 180 185 190

Arg Thr Thr Ala Asp Gln Lys Lys Pro Arg Gly Thr Glu Ser Leu Ser 195 200 205

Ala Ser Glu Ser Leu Ile Leu Lys Ser Asp Ala Ala Lys Leu Arg Ser 210 215 220 Asp Ser His Ser Arg Ser Leu Ser Pro Asn His Asn Thr Leu Gln Thr 225 230 235 240

Leu Lys Ser Asp Gly Arg Met Pro Ser Ser Ser Arg Ala Glu Ser Pro 245 250 255

Gly Pro Gly Ser Arg Leu Ser Ser Pro Lys Pro Lys Thr Leu Pro Ala 260 265 270

Asn Arg Ser Ser Pro Ser Gly Ala Ser Ser Pro Arg Ser Ser Pro 275 280 285

His Asp Lys Asn Leu Pro Gln Lys Ser Thr Ala Pro Val Lys Thr Lys 290 295 300

Leu Asp Pro Pro Arg Glu Arg Ser Lys Ser Asp Ser Tyr Thr Leu Asp 305 310 315 320

Pro Asp Thr Leu Arg Lys Lys Lys Met Pro Leu Thr Glu Pro Leu Arg 325 330 335

Gly Arg Ser Thr Ser Pro Lys Pro Lys Ser Val Pro Lys Asp Ser Thr 340 345 350

Asp Ser Pro Gly Ser Glu Asn Arg Ala Pro Ser Pro His Val Val Gln 355 360 365

Glu Asn Leu His Ser Glu Val Val Glu Val Cys Thr Ser Ser Thr Leu 370 375 380

Lys Thr Asn Ser Leu Thr Asp Ser Thr Cys Asp Asp Ser Ser Glu Phe 385 390 395 400

Lys Ser Val Asp Glu Gly Ser Asn Lys Val His Phe Ser Ile Gly Lys
405 410 415

Ala Pro Leu Lys Asp Glu Gln Glu Met Arg Ala Ser Pro Lys Ile Ser 420 425 430

Arg Lys Cys Ala Asn Arg His Thr Arg Pro Lys Lys Glu Lys Ser Ser 435

Phe Leu Phe Lys Gly Asp Gly Ser Gly Ala Phe Arg Ala Ser Gln Ser 450 455 460

Lys Pro Cys Leu Leu Leu Trp Pro Asn Val Pro Glu Leu Cys Leu Leu 465 470 475 480

Pro Ser Ser Gly Met Lys Ala 485

<210> 336

<211> 526

<212> PRT

<213> Homo sapiens

- Lys Ser Leu Leu Val Pro Val Asp Val Thr Asn Ser Glu Gly Thr Trp 20 25 30
- Val Gln Leu Asp Gln Asn Ser Met Val Glu Phe Cys Glu Ser Asp Glu 35 40 45
- Gly Glu Ala Trp Ser Leu Ala Arg Asp Arg Gly Gly Asn Gln Tyr Leu
 50 55 60
- Arg His Glu Asp Glu Gln Ala Leu Leu Asp Gln Asn Ser Gln Thr Pro 65 70 75 80
- Pro Pro Ser Pro Phe Ser Val Gln Ala Phe Asn Lys Gly Ala Ser Cys 85 90 95
- Ser Ala Gln Gly Phe Asp Tyr Gly Leu Gly Asn Ser Lys Gly Asp Gln
 100 105 110
- Leu Ser Ala Ile Leu Asn Ser Ile Gln Ser Arg Pro Asn Leu Pro Ala 115 120 125
- Pro Ser Ile Phe Asp Gln Ala Ala Lys Pro Pro Ser Ser Leu Val His 130 135 140
- Ser Pro Phe Val Phe Gly Gln Pro Leu Ser Phe Gln Gln Pro Gln Leu 145 150 155 160
- Gln Lys Ser Pro Ser Arg Asn Leu Ala Ser Arg Glu Arg Ile Tyr Lys 165 170 175
- Asn Tyr Gly Val Ala Gly Pro Ala Ser Ala Leu Ser Ser Leu Ser His 180 185 190
- Lys Leu Lys Gly Asp Arg Gly Asn Ile Ser Thr Ser Ser Lys Pro Ala 195 200 205
- Ser Thr Ser Gly Lys Ser Glu Leu Ser Ser Lys His Ser Arg Ser Leu 210 215 220
- Lys Pro Asp Gly Arg Met Ser Arg Thr Thr Ala Asp Gln Lys Lys Pro 225 230 235 240
- Arg Gly Thr Glu Ser Leu Ser Ala Ser Glu Ser Leu Ile Leu Lys Ser 245 250 255
- Asp Ala Ala Lys Leu Arg Ser Asp Ser His Ser Arg Ser Leu Ser Pro 260 265 270
- Asn His Asn Thr Leu Gln Thr Leu Lys Ser Asp Gly Arg Met Pro Ser 275 280 285
- Ser Ser Arg Ala Glu Ser Pro Gly Pro Gly Ser Arg Leu Ser Ser Pro 290 295 300

Lys Pro Lys Thr Leu Pro Ala Asn Arg Ser Ser Pro Ser Gly Ala Ser 305 310 315 320

Ser Pro Arg Ser Ser Pro His Asp Lys Asn Leu Pro Gln Lys Ser 325 330 335

Thr Ala Pro Val Lys Thr Lys Leu Asp Pro Pro Arg Glu Arg Ser Lys 340 345 350

Ser Asp Ser Tyr Thr Leu Asp Pro Asp Thr Leu Arg Lys Lys Met 355 360 365

Pro Leu Thr Glu Pro Leu Arg Gly Arg Ser Thr Ser Pro Lys 370 375 380

Ser Val Pro Lys Asp Ser Thr Asp Ser Pro Gly Ser Glu Asn Arg Ala 385 390 395 400

Pro Ser Pro His Val Val Glu Glu Asn Leu His Ser Glu Val Val Glu 405 410 415

Val Cys Thr Ser Ser Thr Leu Lys Thr Asn Ser Leu Thr Asp Ser Thr 420 425 430

Cys Asp Asp Ser Ser Glu Phe Lys Ser Val Asp Glu Gly Ser Asn Lys
435
440
445

Val His Phe Ser Ile Gly Lys Ala Pro Leu Lys Asp Glu Gln Glu Met 450 455 460

Arg Ala Ser Pro Lys Ile Ser Arg Lys Cys Ala Asn Arg His Thr Arg 465 470 475 480

Pro Lys Lys Glu Lys Ser Ser Phe Leu Phe Lys Gly Asp Gly Ser Gly 485 490 495

Ala Phe Arg Ala Ser Gln Ser Lys Pro Cys Leu Leu Leu Trp Pro Asn 500 505 - 510

Val Pro Glu Leu Cys Leu Leu Pro Ser Ser Gly Met Lys Ala 515 520 525

<210> 337

<211> 112

<212> PRT

<213> Homo sapiens

<400> 337

Asn Gly Tyr Thr Glu Ala Trp Cys Leu Ser Phe Asn Gln His Leu Gly
1 5 10 15

Lys Ser Leu Leu Val Pro Val Asp Val Thr Asn Ser Glu Gly Thr Trp
20 25 30

Val Gln Leu Asp Gln Asn Ser Met Val Glu Phe Cys Glu Ser Asp Glu 35 40 45 Gly Glu Ala Trp Ser Leu Ala Arg Asp Arg Gly Gly Asn Gln Tyr Leu 50 60

Arg His Glu Asp Glu Gln Ala Leu Leu Asp Gln Asn Ser Gln Thr Pro 65 70 75 80

Pro Pro Ser Pro Phe Ser Val Gln Ala Phe Asn Lys Gly Ala Ser Cys
85 90 95

Ser Ala Gln Gly Phe Asp Tyr Gly Leu Gly Asn Ser Lys Gly Asp Gln 100 \$105\$

<210> 338

<211> 22

<212> PRT

<213> Homo sapiens

<400> 338

Asn Gly Tyr Thr Glu Ala Trp Cys Leu Ser Phe Asn Gln His Leu Gly
1 5 10 15

Lys Ser Leu Leu Val Pro 20

<210> 339

<211> 98

<212> PRT

<213> Homo sapiens

<400> 339

Leu Gly Lys Ser Leu Leu Val Pro Val Asp Val Thr Asn Ser Glu Gly
1 5 10 15

Thr Trp Val Gln Leu Asp Gln Asn Ser Met Val Glu Phe Cys Glu Ser 20 25 30

Asp Glu Gly Glu Ala Trp Ser Leu Ala Arg Asp Arg Gly Gly Asn Gln
35 40 45

Tyr Leu Arg His Glu Asp Glu Gln Ala Leu Leu Asp Gln Asn Ser Gln 50 55 60

Thr Pro Pro Pro Ser Pro Phe Ser Val Gln Ala Phe Asn Lys Gly Ala 65 70 75 80

Ser Cys Ser Ala Gln Gly Phe Asp Tyr Gly Leu Gly Asn Ser Lys Gly
85 90

Asp Gln

<211> 301

<212> PRT

<213> Homo sapiens

<400> 340

Lys Gly Asp Arg Gly Asn Ile Ser Thr Ser Ser Lys Pro Ala Ser Thr 1 5 10 15

Ser Gly Lys Ser Glu Leu Ser Ser Lys His Ser Arg Ser Leu Lys Pro 20 25 30

Asp Gly Arg Met Ser Arg Thr Thr Ala Asp Gln Lys Lys Pro Arg Gly
35 40 45

Thr Glu Ser Leu Ser Ala Ser Glu Ser Leu Ile Leu Lys Ser Asp Ala 50 55 60

Ala Lys Leu Arg Ser Asp Ser His Ser Arg Ser Leu Ser Pro Asn His
65 70 75 80

Asn Thr Leu Gln Thr Leu Lys Ser Asp Gly Arg Met Pro Ser Ser Ser 85 90 95

Arg Ala Glu Ser Pro Gly Pro Gly Ser Arg Leu Ser Ser Pro Lys Pro
100 105 110

Lys Thr Leu Pro Ala Asn Arg Ser Ser Pro Ser Gly Ala Ser Ser Pro 115 120 125

Arg Ser Ser Ser Pro His Asp Lys Asn Leu Pro Gln Lys Ser Thr Ala 130 135 140

Pro Val Lys Thr Lys Leu Asp Pro Pro Arg Glu Arg Ser Lys Ser Asp
145 150 155 160

Ser Tyr Thr Leu Asp Pro Asp Thr Leu Arg Lys Lys Met Pro Leu 165 170 175

Thr Glu Pro Leu Arg Gly Arg Ser Thr Ser Pro Lys Pro Lys Ser Val 180 185 190

Pro Lys Asp Ser Thr Asp Ser Pro Gly Ser Glu Asn Arg Ala Pro Ser 195 200 205

Pro His Val Val Gln Glu Asn Leu His Ser Glu Val Val Glu Val Cys 210 215 220

Thr Ser Ser Thr Leu Lys Thr Asn Ser Leu Thr Asp Ser Thr Cys Asp 225 230 235 240

Asp Ser Ser Glu Phe Lys Ser Val Asp Glu Gly Ser Asn Lys Val His 245 250 255

Phe Ser Ile Gly Lys Ala Pro Leu Lys Asp Glu Gln Glu Met Arg Ala 260 265 270

Ser Pro Lys Ile Ser Arg Lys Cys Ala Asn Arg His Thr Arg Pro Lys 275 280 285

Lys Glu Lys Ser Ser Phe Leu Phe Lys Gly Asp Gly Ser 290 295 300

<210> 341

<211> 196

<212> PRT

<213> Homo sapiens

<400> 341

Ser Gln Pro Lys Gln Ala Met Ser Pro Ser Val Ala Glu Cys Ala Arg 1 5 10 15

Ala Val Phe Ala Ser Phe Leu Trp His Glu Gly Ile Val Met His 20 25 30

Gly Leu Ser Ser Phe Leu Lys Phe His Pro Glu Leu Ser Lys Glu His
35 40 45

Ala Pro Ile Arg Ser Ser Leu Asn Ser Gln Gln Pro Thr Glu Glu Lys
50 55 60

Glu Thr Lys Leu Glu Asn Arg His Ser Leu Glu Ile Ser Ser Ala Leu 65 70 75 80

Asn Met Phe Asn Ile Ala Pro His Gly Pro Asp Ile Ser Lys Met Gly 85 90 95

Ser Ile Asn Lys Asn Lys Val Leu Ser Met Leu Lys Glu Pro Pro Leu 100 105 110

His Glu Lys Cys Glu Asp Gly Lys Thr Glu Thr Thr Phe Glu Met Ser 115 120 125

Met His Asn Thr Met Lys Ser Lys Ser Pro Leu Pro Leu Thr Leu Gln 130 135 140

His Leu Val Ala Phe Trp Glu Asp Ile Ser Leu Ala Thr Ile Lys Ala 145 150 155 160

Ala Ser Gln Asn Met Ile Phe Pro Ser Pro Gly Ser Cys Ala Val Leu 165 170 175

Lys Lys Glu Cys Glu Lys Glu Asn Lys Lys Ser Lys Lys Glu Lys 180 185 190

Lys Lys Lys 195

<210> 342

<211> 190

<212> PRT

<213> Homo sapiens

<400> 342

Met Ser Pro Ser Val Ala Glu Cys Ala Arg Ala Val Phe Ala Ser Phe

1				5					10					15	
Leu	Trp	His	Glu 20	Gly	Ile	Val	Met	Met 25	His	Gly	Leu	Ser	Ser 30	Phe	Leu
Lys	Phe	His 35	Pro	Glu	Leu	Ser	Lys 40	Glu	His	Ala	Pro	Ile 45	Arg	Ser	Ser
Leu	Asn 50	Ser	Gln	Gln	Pro	Thr 55	Glu	Glu	Lys	Glu	Thr 60	Lys	Leu	Glu	Asn
Arg 65	His	Ser	Leu	Glu	Ile 70	Ser	Ser	Ala	Leu	Asn 75	Met	Phe	Asn	Ile	Ala 80
Pro	His	Gly	Pro	Asp 85	Ile	Ser	Lys	Met	Gly 90	Ser	Ile	Asn	Lys	Asn 95	Lys
Val	Leu	Ser	Met 100	Leu	Lys	Glu	Pro	Pro 105	Leu	His	Glu	Lys	Cys 110	Glu	Asp
Gly	Lys	Thr 115	Glu	Thr	Thr	Phe	Glu 120	Met	Ser	Met	His	Asn 125	Thr	Met	Lys
Ser	Lys 130	Ser	Pro	Leu	Pro	Leu 135	Thr	Leu	Gln	His	Leu 140	Val	Ala	Phe	Trp
Glu 145	Asp	Ile	Ser	Leu	Ala 150	Thr	Ile	Lys	Ala	Ala 155	Ser	Gln	Asn	Met	Ile 160
Phe	Pro	Ser	Pro	Gly 165	Ser	Cys	Ala	Val	Leu 170	Lys	Lys	Lys	Glu	Cys 175	Glu
Lys	Glu	Asn	Lys 180	Lys	Ser	Lys	Lys	Glu 185	Lys	Lys	Lys	Lys	Lys 190		
<210> 343 <211> 26 <212> PRT <213> Homo sapiens															
)> 34 Gln		Met	Ser 5	Pro	Ser	Val	Ala	Glu 10	Cys	Ala	Arg	Ala	Val 15	Phe
Ala	Ser	Phe	Leu 20	Trp	His	Glu	Gly	Ile 25	Val						
<210> 344 <211> 162 <212> PRT <213> Homo sapiens															
)> 34 Ser		Leu	Lys 5	Phe	His	Pro	Glu	Leu 10	Ser	Lys	Glu	His	Ala 15	Pro

- Ile Arg Ser Ser Leu Asn Ser Gln Gln Pro Thr Glu Glu Lys Glu Thr
 20 25 30
- Lys Leu Glu Asn Arg His Ser Leu Glu Ile Ser Ser Ala Leu Asn Met 35 40 45
- Phe Asn Ile Ala Pro His Gly Pro Asp Ile Ser Lys Met Gly Ser Ile
 50 55 60
- Asn Lys Asn Lys Val Leu Ser Met Leu Lys Glu Pro Pro Leu His Glu 65 70 75 80
- Lys Cys Glu Asp Gly Lys Thr Glu Thr Thr Phe Glu Met Ser Met His
 85 90 95
- Asn Thr Met Lys Ser Lys Ser Pro Leu Pro Leu Thr Leu Gln His Leu 100 105 110
- Val Ala Phe Trp Glu Asp Ile Ser Leu Ala Thr Ile Lys Ala Ala Ser 115 120 125
- Gln Asn Met Ile Phe Pro Ser Pro Gly Ser Cys Ala Val Leu Lys Lys 130 135 140
- Lys Glu Cys Glu Lys Glu Asn Lys Lys Ser Lys Lys Glu Lys Lys 145 150 155 160

Lys Lys